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71084

CRFE

Fr m: Schmidt, Mary
Sent: Tuesday, July 16, 2002 4:42 PM
To: STIC-Biotech/ChemLib
Subject: sequence search request 09/716,320

please search seq id no. 3-- this is a short antisense sequence, so please size limit the results to less than 100 bases.
please include an interference search also.

thanks,
melissa
au 1635
11e12 mailboxes

Edward Hart
Technical Info. Specialist
STIC/Biotech
CMI 6B02 Tel: 305-9203

STIC
JUL 16 2002
11:16 AM

seq-3 (15 residues)

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 7/18/02
Date Completed: 7/22/02
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH: /
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

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GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 20, 2002, 22:43:05 ; Search time 1800.28 Seconds
(without alignments)
174.361 Million cell updates/sec

Title: US-09-716-320-3
Perfect score: 15
Sequence: 1 tccatggtgctcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues
Total number of hits satisfying chosen parameters: 843946

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	4	14	15	6	AR071406	AR071406 Sequence
	5	14	51	6	AX159179	AX159179 Sequence
	6	13	14	6	A45228	A45228 Sequence 10
	7	13	14	6	A88989	A88989 Sequence 11
	8	13	16	6	A88177	A88177 Sequence 32
	9	13	16	6	A90144	A90144 Sequence 32
	10	13	20	6	AR137074	AR137074 Sequence
c	11	13	20	6	AX164704	AX164704 Sequence
	12	13	26	6	AR122156	AR122156 Sequence
	13	13	26	6	AR142598	AR142598 Sequence
c	14	12.4	22	6	AR054584	AR054584 Sequence
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c	16	12.4	51	6	AX159180	AX159180 Sequence
	17	12.4	51	6	AX161039	AX161039 Sequence
c	18	12.4	51	6	AX161040	AX161040 Sequence
c	19	12.4	51	6	AX161041	AX161041 Sequence
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c	21	12	27	6	AR017897	AR017897 Sequence
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	24	12	97	6	E15263	E15263 Chlamydomon
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c	31	11.8	93	9	AF172208	AF172208 Eulemur m
c	32	11.8	93	9	AF172209	AF172209 Perodicti
	33	11.8	96	3	CELE11937	AJ011937 Caenorhab
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	35	11.8	100	6	AR097085	AR097085 Sequence
	36	11.8	100	6	AR130583	AR130583 Sequence
	37	11.8	100	6	AR171932	AR171932 Sequence
	38	11.4	20	6	AR136387	AR136387 Sequence
c	39	11.4	20	6	E28760	E28760 Antitumor d
	40	11.4	25	6	A03718	A03718 Oligonucleo
c	41	11.4	35	6	E16642	E16642 PCR primer
c	42	11.4	35	6	E27315	E27315 DNA synthas
	43	11.4	40	6	A03719	A03719 Oligonucleo
	44	11.4	42	6	AX128374	AX128374 Sequence
c	45	11.4	48	6	AX232549	AX232549 Sequence

ALIGNMENTS

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LOCUS	Sequence 13 from Patent WO0122972.					
DEFINITION	AX103821					
ACCESSION	AX103821.1	GI:13920018				
VERSION						
KEYWORDS	synthetic construct.					
SOURCE	synthetic construct					
ORGANISM	artificial sequence.					
REFERENCE	1 (bases 1 to 19)					
AUTHORS	Krieg,A.M., Schetter,C. and Vollmer,J.C.					
TITLE	Immunostimulatory nucleic acids					
JOURNAL	Patent: WO 0122972-A 13 05-APR-2001;					
	UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical					
	GmbH (DE)					
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source	1..19					
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Dd	4	TCCATGGTGCTCACT	18

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LOCUS	AX355038
DEFINITION	Sequence 66 from Patent WO0197843.
ACCESSION	AX355038
VERSION	AX355038.1 GI:18619705
DNA	linear
PAT	06-FEB-2002

AUTHORS	Weiner, G. and Hartmann, G.
TITLE	Methods for enhancing antibody-induced cell lysis and treating cancer

JOURNAL	Patent: WO 0197843-A 66 27-DEC-2001; UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
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ACCESSION	I34918
VERSION	I34918.1 GI:2087886
KEYWORDS	.
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 24)
TITLE	Thompson, J.D. and Draper, K.G.
JOURNAL	ErbB2/new targeted ribozymes
FEATURES	Patent: US 5599704 A4-04-FEB-1997; } Location/Qualifiers

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Matches 15; Conservative
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Db 21 TCCATGGTGCTCACT 7

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LOCUS	
DEFINITION	AR071406 Sequence 1 from patent US 5910583.
ACCESSION	AR071406
VERSION	AR071406.1 GI:7222294
DNA	linear
PAT	18-FEB-2000

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LOCUS	AX159179
DEFINITION	Sequence 2507 from Patent WO0140521.
ACCESSION	AX159179
VERSION	AX159179.1 GI:14540510
KEYWORDS	.
SOURCE	human.
	linear
	DNA
	51 bp
	PAT 22-JUN-2001

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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	17	CCATGGTGCTCACT	30

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LOCUS	A45228	14 bp	DNA	linear
DEFINITION	Sequence 105 from Patent WO9517507.			PAT 07-MAR-1997

ACCESSION A45228
VERSION A45228.1 GI:2299723
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W., Schlingensiepen,K., Schlingensiepen,R. and Schlingensiepen,G.
TITLE ANTISENSE NUCLEIC ACIDS FOR THE PREVENTION AND TREATMENT OF DISORDERS IN WHICH EXPRESSION OF c-erbB PLAYS A ROLE
JOURNAL PATENT: WO 9517507-A 105 29-JUN-1995;
COMMENT BIOGNOSTIK GES (DE)
FEATURES Other publication AU 1313095 950710.
source Location/Qualifiers
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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CATGGTGCTCACT 13

RESULT 7
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LOCUS A88989 14 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 1137 from Patent WO9833904.
ACCESSION A88989
VERSION A88989.1 GI:6737559
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL PATENT: WO 9833904-A 1137 06-AUG-1998;
FEATURES BIOGNOSTIK GES (DE); BRYSCH WOLFGANG (DE)
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Db 1 CATGGTGCTCACT 13

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LOCUS A88177 16 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 325 from Patent WO9833904.
ACCESSION A88177
VERSION A88177.1 GI:6736747
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified
unclassified.

REFERENCE 1 (bases 1 to 16)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL PATENT: WO 9833904-A 325 06-AUG-1998;
FEATURES BIOGNOSTIK GES (DE); BRYSCH WOLFGANG (DE)
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Db 1 CATGGTGCTCACT 13

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DEFINITION Sequence 325 from Patent EP0856579.
ACCESSION A90144
VERSION A90144.1 GI:6738658
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Brysch,W.D. and Schlingensiepen,K.D.
TITLE An antisense oligonucleotide preparation method
JOURNAL PATENT: EP 0856579-A 325 05-AUG-1998;
FEATURES BIOGNOSTIK GES (DE)
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Db 1 CATGGTGCTCACT 13

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DEFINITION Sequence 3 from patent US 6162965.
ACCESSION AR137074
VERSION AR137074.1 GI:14478324
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Hansen,G.
TITLE Plant transformation methods
JOURNAL Patent: US 6162965-A 3 19-DEC-2000;
FEATURES Location/Qualifiers
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Db 6 TCCATGGTGCTCA 18

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DEFINITION Sequence 9 from Patent WO0136644.
ACCESSION AX164704
VERSION AX164704.1 GI:14545596
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequence.
REFERENCE 1 (bases 1 to 20)
AUTHORS Rastelli,L., Lewin,D., Taillon,B. and Andrew,D.P.
TITLE Wnt-regulated cytokine-like polypeptide and nucleic acids encoding same
JOURNAL Patent: WO 0136644-A 9 25-MAY-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
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Db 20 CATGGTGCTCACT 8

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AR122156
LOCUS AR122156 26 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 18 from patent US 6165712.
ACCESSION AR122156
VERSION AR122156.1 GI:14106473
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 26)
AUTHORS Foulkes,J.Gordon, Leichtfried,F.E., Pieler,C., Stephenson,J.R. and Case,C.C.
TITLE Methods of transcriptionally modulating expression of viral genes and genes useful for production of proteins
JOURNAL Patent: US 6165712-A 18 26-DEC-2000;
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Db 1 CATGGTGCTCACT 13
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RESULT 13
AR142598
LOCUS AR142598 26 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 6 from patent US 6203976.
ACCESSION AR142598
VERSION AR142598.1 GI:15103884
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 26)
AUTHORS Foulkes,J.Gordon, Leichtfried,F.E., Pieler,C. and Stephenson,J.R.
TITLE Methods of preparing compositions comprising chemicals capable of transcriptional modulation
JOURNAL Patent: US 6203976-A 6 20-MAR-2001;
FEATURES Location/Qualifiers
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Db 1 CATGGTGCTCACT 13

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LOCUS AR054584 22 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 5 from patent US 5837447.
ACCESSION AR054584
VERSION AR054584.1 GI:5980161
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 22)
AUTHORS Gorski,J.
TITLE Monitoring an immune response by analysis of amplified immunoglobulin or T-cell-receptor nucleic acid
JOURNAL Patent: US 5837447-A 5 17-NOV-1998;
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Db 21 TCCAAGGTGCTCAC 8

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AX161043/c
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DEFINITION Sequence 4371 from Patent WO0140521.
ACCESSION AX161043
VERSION AX161043.1 GI:14542374
KEYWORDS

SOURCE human.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 50)
AUTHORS Shimkets,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 4371 07-JUN-2001;
Curagen Corporation (US)
FEATURES
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 misc_feature 25..26
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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 21, 2002, 02:44:51 ; Search time 203.9 Seconds
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 4	15	100.0	70	AAX80767	Promoter region of
5	14	93.3	15	AAV40434	US-1 antisense oli
6	14	93.3	51	AAI75566	Human silent SNP c
C 7	13.4	89.3	24	AAV22685	PCR primer HN40 us
C 8	13.4	89.3	29	AAS09199	PCR primer #1 used
9	13	86.7	14	AAQ92762	c-erbB-2 antisense

C 10	13	86.7	16	19	AAV48736	ErbB-2 gene antise
C 11	13	86.7	19	21	AA533776	Forward primer for
C 12	13	86.7	19	22	AAD15845	Human HER-2 ECD co
C 13	13	86.7	20	20	AAV84090	PCR primer MTL(P)
C 14	13	86.7	20	22	AAS00677	Human consensus se
C 15	13	86.7	20	22	AAF26607	Maize metallothlon
C 16	12.4	82.7	20	21	AAV74062	Reverse PCR primer
C 17	12.4	82.7	22	20	AAV08115	Primer Vbeta5 for
C 18	12.4	82.7	47	20	AAZ01091	Probe for human PG
C 19	12.4	82.7	50	22	AAI77430	Human silent SNP c
C 20	12.4	82.7	51	22	AAI75567	Human silent SNP c
C 21	12.4	82.7	51	22	AAI77426	Human silent SNP c
C 22	12.4	82.7	51	22	AAI77427	Human silent SNP c
C 23	12.4	82.7	51	22	AAI77428	Human silent SNP c
C 24	12	80.0	22	19	AAV17078	Oligonucleotide 6
C 25	12	80.0	27	19	AAV36673	Nucleotide sequenc
C 26	12	80.0	53	19	AAV36662	Nucleotide sequenc
C 27	12	80.0	62	19	AAV36663	Nucleotide sequenc
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C 30	11.8	78.7	22	21	AAA52945	Mouse EphA4 gene P
C 31	11.8	78.7	32	21	AAA52982	HCV-1a E2 forward
C 32	11.8	78.7	42	21	AAA12095	Human ICAM-1 DNA f
C 33	11.8	78.7	50	18	AAT89212	Prostate specific
C 34	11.8	78.7	50	22	AAH89655	Human kinase codin
C 35	11.8	78.7	51	21	AAA76472	Membrane transport
C 36	11.8	78.7	51	21	AAA76473	Membrane transport
C 37	11.8	78.7	51	22	AAH89654	Human kinase codin
C 38	11.8	78.7	54	17	AAT50594	Human CETP hairpin
C 39	11.8	78.7	54	18	AAX71673	Human KDR VEGF rec
C 40	11.8	78.7	100	19	AAV59359	Nucleotide sequenc
C 41	11.8	78.7	100	21	AAA12495	cDNA encoding a co
C 42	11.6	77.3	39	21	AAA40195	H. pylori immunogl
C 43	11.6	77.3	39	21	AAA40196	H. pylori immunogl
C 44	11.6	77.3	39	22	AAF88090	H. pylori derived
C 45	11.6	77.3	39	22	AAF88091	H. pylori derived

ALIGNMENTS

RESULT 1
AAZ90403
ID AAZ90403 standard; DNA; 15 BP.
XX
AC AAZ90403;
XX
DT 30-MAY-2000 (first entry)
XX
DE Phosphorothioated ASO directed against HER-2 gene.
XX
KW Radiation; drug resistance; HER-2; raf-1; radioresistant; tumour;
KW cancer; restenosis; osteoarthritis; neurological; pre-eclampsia;
KW intestinal abnormality; antisense; ss.
XX
OS Homo sapiens.
XX
PN US6027892-A.
XX
PD 22-FEB-2000.
XX
PF 16-DEC-1997; 97US-0991830.
XX
PR 30-DEC-1996; 96US-0034160.
XX
PA (CHAN/) CHANG E H.
PA (PIRO/) PIROLLO K F.
XX
PI Chang EH, Pirollo KF;
XX
DR WPI; 2000-194828/17.
XX
PT Reducing radiation or drug resistance in a cell comprises introduction

PT of antisense nucleic acid for treating or diagnosing cancer,
PT restenosis, osteoarthritis, neurological and intestinal abnormalities
PT and pre-eclampsia -
XX
PS Claim 4; Column 9; 18pp; English.
XX
CC The invention provides a method for reducing radiation or drug resistance
CC of a cell, in vitro, which does not overexpress HER-2 or raf-1 genes.
CC The method comprises introducing to the cell an antisense nucleic acid
CC comprising a segment complementary to HER-2 or raf-1. The method is
CC useful for increasing drug and radiation sensitivity in a cell,
CC particularly in the treatment of radioresistant tumours. The antisense
CC nucleic acids are useful for treating or diagnosing cancer, restenosis,
CC osteoarthritis, neurological and intestinal abnormalities and
CC pre-eclampsia. The present sequence represents a phosphorothioated
CC antisense oligo (ASO) directed against HER-2 gene.
XX
SQ Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 other;

Query Match 100.0%; Score 15; DB 21; Length 15;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatgggtgctcact 15
| | | | | | | | | | | | | | |
Db 1 tccatgggtgctcact 15

RESULT 2
AAF98894
ID AAF98894 standard; DNA; 19 BP.
XX
AC AAF98894;
XX
DT 12-JUN-2001 (first entry)
XX
DE Immunostimulatory nucleic acid #10.
XX
KW Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX
OS Synthetic.
XX
PN WO200122972-A2.
XX
PD 05-APR-2001.
XX
PF 25-SEP-2000; 2000WO-US26383.
XX
PR 25-SEP-1999; 99US-0156113.
PR 27-SEP-1999; 99US-0156135.
PR 23-AUG-2000; 2000US-0227436.
XX
PA (IOWA) UNIV IOWA RES FOUND.
PA (COLE-) COLEY PHARM GMBH.
XX
PI Krieg AM, Schetter C, Vollmer J;
XX
DR WPI; 2001-273485/28.
XX
PT Vaccinating against tumors, infectious diseases, allergies and asthma
PT using immunostimulatory Py-rich and TG nucleic acids -
XX
PS Disclosure; Page 38; 338pp; English.
XX
CC The present invention relates to a method for stimulating an immune
CC response. The method comprises administering an immunostimulatory nucleic
CC acid to a non-rodent subject in sufficient quantity to stimulate an
CC immune response. The present sequence is one such immunostimulatory
CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich

CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects
CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells.
CC Note: the present sequence may have a phosphorothioate backbone.
XX
SQ Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 15; DB 22; Length 19;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatgggtgctcact 15
| | | | | | | | | | | | | | |
Db 4 tccatgggtgctcact 18

RESULT 3
AAQ52043/C
ID AAQ52043 standard; RNA; 24 BP.
XX
AC AAQ52043;
XX
DT 26-MAY-1994 (first entry)
XX
DE Breast cancer specific mRNA ribozyme cleavable nucleotide (159).
XX
KW Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;
KW resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;
KW actinomycin D; vinblastine; small intestine; kidney; adrenal gland;
KW adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;
KW human; chronic myelogenous leukemia; CML; follicular lymphoma;
KW B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;
KW neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;
KW hairpin; hepatitis delta virus; group I intron; RNaseP; ss.
XX
OS Homo sapiens.
XX
PN WO9323057-A.
XX
PD 25-NOV-1993.
XX
PF 13-MAY-1993; 93WO-US04573.
XX
PR 14-MAY-1992; 92US-0882822.
PR 14-MAY-1992; 92US-0882885.
PR 26-AUG-1992; 92US-0936110.
PR 26-AUG-1992; 92US-0936421.
PR 26-AUG-1992; 92US-0936422.
PR 26-AUG-1992; 92US-0936531.
PR 26-AUG-1992; 92US-0936532.
PR 07-DEC-1992; 92US-0987131.
PR 19-JAN-1993; 93US-0006122.
PR 19-JAN-1993; 93US-0008910.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Draper KG, Thompson JD;
XX
DR WPI; 1993-386203/48.
XX
PT New enzymatic RNA molecules (ribozymes) - which cleave mRNA
PT associated with tumours or mRNA expressed from gene encoding
PT multiple drug resistance
XX
PS Claim 3; Fig 8; 69pp; English.
XX
CC The sequences given in AAQ51825-2266 represent areas of mRNAs which are

CC associated with development or maintenance of chronic myelogenous
CC leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or
CC acute lymphocytic leukemia, follicular lymphoma, B-cell acute
CC lymphocytic leukemia, breast cancer, colon carcinoma, neuroblastoma
CC and lung cancer. The full length mRNAs containing these target
CC sequences, encode aberrant cellular proteins which are able to control
CC cellular proliferation and are directly linked to a leukemic
CC phenotype. These target sequences are identified by the ribozyme of
CC the invention. The ribozymes is formed in a hammerhead motif, but may
CC also be formed in the motif of a hairpin, hepatitis delta virus, group
CC I intron or RNaseP-like RNA. These ribozymes may be used to inhibit
CC the development or expression of a transformed phenotype in man and
CC other animals by modulating expression of the corresponding gene.
CC Cleavage of target mRNAs expressed in pre-neoplastic and transformed
CC cells elicits inhibition of the transformed state. Multiple drug
CC resistance (mdr-1) mRNA specific ribozymes remove the mechanism of
CC drug resistance used by transformed cells and thus enhances drug
CC therapies for tumours. The ribozymes may also be used to study
CC genetic drift and mutations within cells.

XX
SQ Sequence 24 BP; 6 A; 7 C; 8 G; 3 U; 0 other;

Query Match 100.0%; Score 15; DB 14; Length 24;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 21 TCCATGGTGCTCACT 7

RESULT 4
AAX80767/c
ID AAX80767 standard; DNA; 70 BP.
XX
AC AAX80767;
XX
DT 26-OCT-1999 (first entry)
XX
DE Promoter region of HER-2 DNA target sequence.
XX
KW HER-2; c-erb-B2; target sequence; antisense molecule; HERMYC1; HERMYC2;
KW HERMYC1R; HERMYC2R; breast cancer; c-myc; promoter region; HER 5';
KW topological linkage; padlock DNA; malignancy; metastasis; tumour;
KW transcription factors; gene therapy; cultured cell; amplification;
KW antisense technology; therapeutic modulation; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT misc_binding 6..20
FT /*tag= a
FT /bound_moiety= "HERMYC1 or HERMYC1R antisense molecule"
FT /note= "Forms a duplex in the presence of HERMYC1 in
FT AAX80768 or HERMYC1R antisense molecule in AAX80770"
FT 37..50
FT misc_binding
FT /*tag= b
FT /bound_moiety= "HERMYC2 or HERMYC2R antisense molecule"
FT /note= "Forms a duplex in the presence of HERMYC2 in
FT AAX80769 or HERMYC2R antisense molecule in AAX80771".
XX
PN WO9909045-A1.
XX
XX
PD 25-FEB-1999.
XX
XX
PF 20-AUG-1998; 98WO-US17268.
XX
XX
PR 20-AUG-1997; 97US-0056742.
XX
XX
PA (SOMA-) SOMAGENICS INC.
XX
PI Johnston BH, Kazakov SA, Kisich KO;

XX WPI; 1999-228889/19.
DR
XX
PT A new antisense molecule which topologically links to target mRNA
XX
PS Example 5; Fig 8; 134pp; English.
XX
CC The present sequence is the 5'promoter region of HER-2 oncogene, that
CC undergoes genetic alterations along with c-myc gene and is associated
CC with aggressive breast cancer and poor prognosis. Overexpression of
CC HER-2 gene has been shown to enhance malignancy and metastasis.
CC Repression of HER-2 in mouse tumours leads to suppression of tumour
CC growth and longer life of the animal. This can be done by using padlock
CC DNAs, HERMYC1, HERMYC1R, HERMYC2 and HERMYC2R, that target a 6 rich
CC sequence in the promoter region. It inhibits binding of transcription
CC factors. This sequence can be used as a target sequence in antisense
CC technology for therapeutic modulation of gene expression in cultured
CC cells and whole animals, for gene function analysis and target
CC validation for gene therapy and for the detection and amplification of
CC nucleic acids.

XX
SQ Sequence 70 BP; 6 A; 25 C; 26 G; 13 T; 0 other;

Query Match 100.0%; Score 15; DB 20; Length 70;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 28 TCCATGGTGCTCACT 14

RESULT 5
AAV40434
ID AAV40434 standard; DNA; 15 BP.
XX
AC AAV40434;
XX
DT 28-SEP-1998 (first entry)
XX
DE US-1 antisense oligonucleotide used to down regulate ERBB2 oncogene.
XX
KW Antisense oligonucleotide; down regulate; erbB-2; oncogene;
KW tyrosine kinase; breast cancer; radioisotope; hybridisation; probe;
KW US-1; US-3; US-4; US-5; UT-1; US-D; SC-3; TRACER; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN WO9820168-A1.
XX
PD 14-MAY-1998.
XX
PF 03-NOV-1997; 97WO-US20910.
XX
PR 04-NOV-1996; 96US-0740821.
XX
PA (UYDU-) UNIV DUKE.
XX
PI Inglehart JD, Marks JR, Vaughn JP;
XX
DR WPI; 1998-286977/25.
XX
XX
PT Antisense oligonucleotides that down regulate the erbB-2 oncogene -
PT useful to inhibit ERBB2 tyrosine kinase receptor expression in
PT cancer cells to treat epithelial cell, breast, ovarian, lung or
PT colon cancer
XX
PS Example 6; Page 15; 31pp; English.
XX
CC The antisense oligonucleotides AAV40432-V40439 were used to down
CC regulate the erbB-2 oncogene. This oncogene codes for a 185kD tyrosine

CC kinase linked transmembrane protein which in 30-50% of primary breast
CC cancers is overexpressed. The oligonucleotides are able to inhibit the
CC overexpression of ERBB2 tyrosine kinase receptor in a cell, which can be
CC done by targeting the antisense oligonucleotides to the erbB-2 oncogene.
CC By labelling the oligonucleotides with, for example, a radioisotope,
CC they can also be used as hybridisation probes to detect the ERBB2 gene.
CC The oligonucleotides were designated the following names, followed by
CC the location in the erbB-2 gene that they target: US-1 (166-180); US-3
CC (160-174); US-4 (173-187); US-5 (178-192); UT-1 (151-165); US-D
CC (US-1 scrambled control); SC-3 (US-3 scrambled control); TRACER
CC (fluoresceinated tracer). It was found that all of the oligonucleotides
CC (apart from the controls) inhibited the erbB-2 protein, however with
CC varying degrees of effectiveness. US-3 and UT-1 were identified as
CC being the most efficient oligonucleotides at inhibiting erbB-2. The
CC oligonucleotides are useful in vivo to treat cancer (especially
CC epithelial cell, breast, ovarian, lung or colon cancer) in a human or
CC other animal, especially when the cancer is characterised by cells that
CC overexpress the ERBB2 tyrosine kinase receptor.
XX
SQ Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 other;

Query Match 93.3%; Score 14; DB 19; Length 15;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatgggtgctcac 14
|||||||
Db 2 tccatgggtgctcac 15

RESULT 6
AAI75566
ID AAI75566 standard; DNA; 51 BP.
XX
AC AAI75566;
XX
DT 09-NOV-2001 (first entry)
XX
DE Human silent SNP containing nucleic acid SEQ:2507.
XX
KW Human; single nucleotide polymorphism; SNP; genome; gene therapy;
KW protein therapy; vaccine; probe; diagnostic assay; detection;
KW quantitation; restorative therapy; polymorphic; ds.
XX
OS Homo sapiens.
XX
PN WO200140521-A2.
XX
PD 07-JUN-2001.
XX
PF 30-NOV-2000; 2000WO-US32758.
XX
PR 30-NOV-1999; 99US-0168138.
PR 29-NOV-2000; 2000US-0726173.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
XX WPI; 2001-356160/37.
XX
PT Polymorphic nucleic acid sequences, useful in genetic testing and
PT therapy -
XX
PS Claim 1; Page 818; 2653pp; English.
XX

AAI73060 to AAI79867 represent isolated human polymorphic polynucleotide
CC sequences (I), which contain single nucleotide polymorphisms (SNPs).
CC AAM53114 to AAM53329 represent peptides related to human polymorphic
CC polynucleotide sequences. The sequences can be used in gene and protein
CC therapy, and in vaccine production. (I) and the polypeptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases

CC associated with inappropriate expression of polymorphic polypeptides.
CC For example, (I) may be used to treat disorders by rectifying mutations
CC or deletions in a patient's genome that affect the activity of
CC polypeptides by expressing inactive proteins or to supplement the
CC patients own production of polypeptide. Additionally, (I) and its
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acids
CC in samples, and therefore which patients may be in need of restorative
CC therapy. The polypeptides encoded by (I) may be used as antigens in the
CC production of antibodies specific for polymorphic polypeptides. The
CC antibodies may also be used to down regulate expression and activity.
CC The antibodies may also be used as diagnostic agents for detecting the
CC presence of polymorphic polypeptides in samples.
XX
SQ Sequence 51 BP; 7 A; 14 C; 15 G; 15 T; 0 other;

Query Match 93.3%; Score 14; DB 22; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
|||||||
Db 17 ccatggtgctcact 30

RESULT 7
AAV22685/c
ID AAV22685 standard; DNA; 24 BP.
XX
AC AAV22685;
XX
DT 20-JUL-1998 (first entry)
XX
DE PCR primer HM40 used to amplify ErbB-2.
XX
KW ErbB-2 protein; vaccine; T-cell damage; activation; T-cell; treatment;
KW prevention; viral disease; cancer; autoimmune disorder; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO9809650-A1.
XX
PD 12-MAR-1998.
XX
PF 05-SEP-1997; 97WO-JP03123.
XX
PR 06-SEP-1996; 96JP-0236937.
XX
PA (MITU) MITSUBISHI CHEM CORP.
XX
PI Nakamura H, Shiku H, Sunamoto J;
XX
DR WPI; 1998-193326/17.
XX
PT Vaccine preparation comprises antigen and hydrophobic polysaccharide
PT - e.g. mannan containing sterol groups for treating, e.g. cancer
XX
PS Example 1; Page 9; 27pp; English.
XX
CC PCR primers AAV22685-86 are used to amplify DNA encoding ErbB-2
CC proteins. The specification describes a vaccine preparation that
CC comprises an antigen and, optionally, a hydrophobic polysaccharide (HPS)
CC optionally as a composite. The antigen is a protein, such as ErbB-2 class
CC 1-9 proteins, which initiate T-cell damage. The vaccine activates T-cells
CC and is useful for the treatment and prevention of viral diseases, cancer
CC and autoimmune disorders.
XX
SQ Sequence 24 BP; 6 A; 6 C; 7 G; 5 T; 0 other;

Query Match 89.3%; Score 13.4; DB 19; Length 24;
Best Local Similarity 93.3%; Pred. No. 4.5e+02;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 21 TCCATGGTGATCACT 7

RESULT 8
AAS09199/c
ID AAS09199 standard; DNA; 29 BP.
XX
AC AAS09199;
XX
DT 07-NOV-2001 (first entry)
XX
DE PCR primer #1 used to amplify cDNA encoding murine CCR7.
XX
KW Cell fusion assay; fluorescence resonance energy transfer; FRET;
KW beta-lactamase; inhibition of cell fusion; CD4; cytokine receptor;
KW viral disease; HIV-1 infection; mouse; murine; CCR7; Th1 cell;
KW PCR primer; ss.
XX
OS Mus sp.
XX
PN WO200160995-A1.
XX
PD 23-AUG-2001.
XX
PF 13-FEB-2001; 2001WO-US04677.
XX
PR 17-FEB-2000; 2000US-0183309.
XX
PA (MERI) MERCK & CO INC.
XX
PI Sullivan KA, Benincasa D, Cascieri MA, Mitnaul LJ, Shiao L;
PI Tota MR;
XX
DR WPI; 2001-536569/59.
XX
PT Determining the amount of fusion that occur between two cells comprises
PT measurement of fluorescence energy transfer -
XX
PS Disclosure; Page 14; 59pp; English.
XX
CC The present invention relates to a method for determining the amount
CC of fusion that occurs between two cells, one of which contains the
CC enzyme beta-lactamase and the other of which contains a fluorescent
CC substrate of beta-lactamase. The method comprises the measurement of
CC fluorescence resonance energy transfer (FRET). The invention also
CC provides methods of identifying inhibitors of the fusion of two
CC types of cells, particularly when fusion is mediated by the
CC interaction of a viral protein and target cellular proteins e.g. CD4
CC and cytokine receptors. The methods are useful for identifying
CC substances that are useful for the treatment of viral diseases,
CC particularly for the identification of inhibitors of HIV-1 infection.
CC The present sequence for PCR primer #1 is used with PCR primer #2
CC (AAS09200) to amplify cDNA encoding CCR7 from murine Th1 cells.
XX
SQ Sequence 29 BP; 9 A; 8 C; 10 G; 2 T; 0 other;

Query Match 89.3%; Score 13.4; DB 22; Length 29;
Best Local Similarity 93.3%; Pred. No. 4.6e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 23 TCCATGGTGCTCTCT 9

RESULT 9
AAQ92762
ID AAQ92762 standard; DNA; 14 BP.

XX AAQ92762;
AC
XX
DT 13-FEB-1996 (first entry)
XX
DE c-erbB-2 antisense nucleic acid #105.
XX
KW Antisense nucleic acid; c-erbB-2; inhibition; fibroblast; neoplasm;
KW p185-erbB-2 protein tyrosine kinase; tumour; breast cancer; detection;
KW immune disease; angiogenesis; ss.
XX
OS Synthetic.
XX
PN WO9517507-A1.
XX
PD 29-JUN-1995.
XX
PF 09-DEC-1994; . 94WO-EP04094.
XX
PR 23-DEC-1993; 93EP-0120710.
XX
PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
PI Brysch W, Schlingensiepen G, Schlingensiepen K, Schlingensiepen R;
XX
DR WPI; 1995-240669/31.
XX
PT New anti:sense nucleic acid against C-erbB-2 - for treating or
PT preventing neoplasms, immune disease and angiogenesis, also for
PT diagnosis
XX
PS Claim 1; Page 48; 55pp; English.
XX
CC The sequences given in AAQ92658-762 are antisense nucleic acids which
CC hybridise with part of the mRNA and/or DNA encoding c-erbB-2. These
CC antisense nucleic acids are able to inhibit the expression of the
CC p185-erbB-2 protein tyrosine kinase activity and cell growth in a
CC number of tumour cells including breast cancer cells. Untransformed
CC normal fibroblasts are not growth inhibited by anti-c-erbB-2
CC antisense compounds suggesting that p185-erbB-2 plays a pathogenic
CC role in the growth of the above mentioned tumours. These antisense
CC oligonucleotides may be used in the prevention and treatment of
CC neoplasms, immune diseases and/or diseases involving pathological
CC angiogenesis when associated with c-erbB-2 expression. They may also
CC be used to detect expression of the relevant genes.
XX
SQ Sequence 14 BP; 2 A; 4 C; 4 G; 4 T; 0 other;

Query Match 86.7%; Score 13; DB 16; Length 14;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 catggtgctcact 15
|||||
Db 1 catggtgctcact 13

RESULT 10
AAV48736
ID AAV48736 standard; DNA; 16 BP.
XX
AC AAV48736;
XX
DT 15-OCT-1998 (first entry)
XX
DE ErbB-2 gene antisense oligonucleotide ErbB-2-28.
XX
KW ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX

PN EP856579-A1.
XX
PD 05-AUG-1998.
XX
PF 31-JAN-1997; 97EP-0101531.
XX
PR 31-JAN-1997; 97EP-0101531.
XX
PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
PI Brysch W, Schlingensiepen K;
XX
DR WPI; 1998-400910/35.
XX
PT Preparation of antisense oligo:nucleotide(s) which lack long runs of
PT consecutive guanosine or inosine - and have specific ratio of
PT residues able to form two or three hydrogen bonds, have greater
PT activity and reduced toxicity, used therapeutically or to modulate
PT growth of cells in culture
XX
PS Claim 10; Fig 6a; 286pp; English.
XX
CC AAV48709-886 represent antisense oligonucleotides directed against the
CC ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted
CC in significant reduction in ErbB-2 protein expression, while
CC oligonucleotides AAV48792-886 had little effect. The oligonucleotides
CC exemplify the invention. The specification describes oligonucleotides
CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC can each form three hydrogen bonds to cytosine; do not contain four
CC consecutive nucleotides able to form three H-bonds each to four
CC consecutive cytosines; do not contain two sequences of three consecutive
CC nucleotides each able to form three H-bonds to three consecutive
CC cytosines, and the ratio between residues able to form two H-bonds each
CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
CC oligonucleotides are used to modulate expression of genes, particularly
CC the genes for p53, Erb-2, junB, junD, TGF-beta 1 or beta 2 to control
CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC oligonucleotides can also be used to analyse function of proteins (by
CC altering their expression or activity) and therapeutically, e.g. in
CC cases of cancer or (targeting TGF) for stimulating the immune system.
XX
SQ Sequence 16 BP; 2 A; 5 C; 5 G; 4 T; 0 other;

Query Match 86.7%; Score 13; DB 19; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 catggtgctcact 15
|||||
Db 1 catggtgctcact 13

RESULT 11
AAA53776/c
ID AAA53776 standard; DNA; 19 BP.
XX
AC AAA53776;
XX
DT 04-DEC-2000 (first entry)
XX
DE Forward primer for HER-2 extracellular domain cDNA.
XX
KW HER-2; erbB-2; oncogene; receptor-like tyrosine kinase; insertion;
KW extracellular domain IIIa; antagonist; intron 8; C-terminal extension;
KW truncated HER-2; p68; dimerization inhibitor; cytostatic; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200044403-A1.
XX
PD 03-AUG-2000.

PN EP856579-A1.
XX
PD 05-AUG-1998.
XX
PF 31-JAN-1997; 97EP-0101531.
XX
PR 31-JAN-1997; 97EP-0101531.
XX
PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
PI Brysch W, Schlingensiepen K;
XX
DR WPI; 1998-400910/35.
XX
PT Preparation of antisense oligo:nucleotide(s) which lack long runs of
PT consecutive guanosine or inosine - and have specific ratio of
PT residues able to form two or three hydrogen bonds, have greater
PT activity and reduced toxicity, used therapeutically or to modulate
PT growth of cells in culture
XX
PS Claim 10; Fig 6a; 286pp; English.
XX
CC AAV48709-886 represent antisense oligonucleotides directed against the
CC ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted
CC in significant reduction in ErbB-2 protein expression, while
CC oligonucleotides AAV48792-886 had little effect. The oligonucleotides
CC exemplify the invention. The specification describes oligonucleotides
CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC can each form three hydrogen bonds to cytosine; do not contain four
CC consecutive nucleotides able to form three H-bonds each to four
CC consecutive cytosines; do not contain two sequences of three consecutive
CC nucleotides each able to form three H-bonds to three consecutive
CC cytosines, and the ratio between residues able to form two H-bonds each
CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
CC oligonucleotides are used to modulate expression of genes, particularly
CC the genes for p53, Erb-2, junB, junD, TGF-beta 1 or beta 2 to control
CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC oligonucleotides can also be used to analyse function of proteins (by
CC altering their expression or activity) and therapeutically, e.g. in
CC cases of cancer or (targeting TGF) for stimulating the immune system.
XX
SQ Sequence 16 BP; 2 A; 5 C; 5 G; 4 T; 0 other;

Query Match 86.7%; Score 13; DB 19; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 catggtgctcact 15
|||||
Db 1 catggtgctcact 13

RESULT 11
AAA53776/c
ID AAA53776 standard; DNA; 19 BP.
XX
AC AAA53776;
XX
DT 04-DEC-2000 (first entry)
XX
DE Forward primer for HER-2 extracellular domain cDNA.
XX
KW HER-2; erbB-2; oncogene; receptor-like tyrosine kinase; insertion;
KW extracellular domain IIIa; antagonist; intron 8; C-terminal extension;
KW truncated HER-2; p68; dimerization inhibitor; cytostatic; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200044403-A1.
XX
PD 03-AUG-2000.

XX
PF 20-JAN-2000; 2000WO-US01484.
XX
PR 20-JAN-1999; 99US-0234208.
XX
PA (UYOR-) UNIV OREGON HEALTH SCI.
XX
PI Doherty JK, Clinton GM, Adelman JP;
XX
DR WPI; 2000-499287/44.
XX
PT Using polypeptides and antibodies that bind to the extracellular domain
PT of the receptor-like tyrosine kinase HER-2 to treat solid tumors of the
PT breast, lung, ovaries and colon
XX
PS Example 1; Page 14; 46pp; English.
XX
CC This primer, corresponding to HER-2 cDNA nucleotides 142-161, was used
CC to amplify the HER-2 extracellular domain. The reverse primers used are
CC shown in AAA53777 and AAA53778.
CC HER-2/neu (erbB-2) oncogene encodes a receptor-like tyrosine kinase. The
CC extracellular domain of p185-HER-2 is proteolytically shed from breast
CC carcinoma cells in culture and is found in serum of some cancer patients
CC and may be a serum marker of metastatic breast cancer. An alternative
CC HER-2 mRNA of 4.8 kb with a 274 bp insert (intron 8) has been
CC identified. The retained intron is in-frame and encodes a 79 amino acid
CC extension designated ECDIIa (the present sequence), which is inserted at
CC residue 340 of p185-HER-2. The alternative mRNA predicts a truncated
CC HER-2 protein (approximately 68 kDa) that lacks the transmembrane and
CC intracellular domains (see AAY97240). p68HER-2 specifically binds to
CC p185-HER-2 without activating HER-2. It could therefore block
CC dimerization of p185-HER-2. The p68HER-2 polypeptide binds to a site on
CC the ECD of HER-2 that is different from the site of binding for
CC Herceptin (RTM) (a marketed humanized monoclonal antibody that is used
CC for the treatment of cancer and binds to the ECD of HER-2). The methods,
CC compositions, polypeptides and antibodies are used to treat solid
CC tumours such as breast cancer, small cell lung carcinoma, ovarian cancer
CC and/or colon cancer, especially where over-expression of HER-2 is
CC indicated.
XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match 86.7%; Score 13; DB 21; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatgggtgctca 13
|||||
Db 13 TCCATGGGTGCTCA 1

RESULT 12
AAD15845/c
ID AAD15845 standard; DNA; 19 BP.
XX
AC AAD15845;
XX
DT 15-NOV-2001 (first entry)
XX
DE Human HER-2 ECD coding sequence amplifying forward PCR primer #1.
XX
KW HER-2; herstatin; antagonist; extracellular domain; ECD; Herceptin;
KW solid tumour; cancer; polymorphism; cytostatic; gene therapy; PCR primer;
KW ss.
XX
OS Homo sapiens.
XX
PN WO200161356-A1.
XX
PD 23-AUG-2001.
XX
PF 16-FEB-2001; 2001WO-US05327.

XX 16-FEB-2000; 2000US-0506079.
XX (UYOR-) UNIV OREGON HEALTH SCI.
XX Clinton G, Henner WD, Evans A;
PI WPI; 2001-529934/58.
XX New polypeptide, which binds to the extracellular domain of HER-2 for
XX the treatment of hard tumors -
PT Example 1; Page 22; 61pp; English.
XX The invention relates to novel HER-2 (herstatin-2) antagonist
CC particularly a polypeptide that binds to the extracellular domain (ECD)
CC of HER-2 at a site that is different from the binding site of humanised
CC antibody, Herceptin, at an affinity of at least 10⁻⁸. The present
CC invention is based upon the initial discovery of an alternative HER-2
CC mRNA transcript with 274 bp insert of intron 8. The translation product
CC of the alternative transcript is a truncated HER-2 protein designated
CC p68HER-2 which lacks the transmembrane and intracellular domains of
CC p185HER-2 but contains ECD I, II of the p185HER-2 and the novel ECDIIIA.
CC The ECDIIIA-containing polypeptides bind tightly to, and thus antagonise
CC the HER-2 receptor. The peptides, which bind to an HER-2 ECD, and the
CC nucleic acids encoding these are useful to treat, diagnose and identify
CC solid tumours. The present sequence is a PCR primer used for amplifying
CC human HER2 ECD coding sequence.
XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match 86.7%; Score 13; DB 22; Length 19;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctca 13
Db 13 TCCATGGTGCTCA 1

RESULT 13
AAV84090
ID AAV84090 standard; DNA; 20 BP.
XX
AC AAV84090;
XX
DT 12-MAR-1999 (first entry)
XX
DE PCR primer MTL(P) used to amplify the iap, p35 and dad-1 genes.
XX
KW Transgenic maize; Agrobacterium induced necrosis inhibition;
KW metallothionein-like promoter; iap; p35; dad-1; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO9854961-A2.
XX
PD 10-DEC-1998.
XX
PF 29-MAY-1998; 98WO-EP03215.
XX
PR 02-JUN-1997; 97US-0867869.
XX
PA (NOVS) NOVARTIS-ERFINDUNGEN VERW GES MBH.
XX
PI Hansen G;
XX
XX WPI; 1999-059863/05.
XX
XX Transforming plant cells using Agrobacterium - in conditions that
PT inhibit Agrobacterium-induced necrosis
XX

PS Example 8; Page 25; 47pp; English.
XX PCR primers AAV84090-93 were used for the amplification and detection
CC of iap, p35 and dad-1 genes in transgenic maize callus, which was
CC transformed with these genes using the method of the invention. The
CC genes were cloned under the control of a metallothionein-like
CC promoter (MLP). PCR primer AAV84090 hybridises promoter sequences, and
CC is used in combination with each of the other primers in separate
CC reactions. The specification describes a new method for transforming a
CC plant cell with a gene of interest. The method comprises exposing the
CC cell to Agrobacterium carrying that gene, under conditions which inhibit
CC Agrobacterium induced necrosis (AIN). The method is used to transform
CC plants with a gene of interest.
XX
SQ Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 other;

Query Match 86.7%; Score 13; DB 20; Length 20;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctca 13
Db 6 tccatggtgctca 18

RESULT 14
AAS00677/C
ID AAS00677 standard; DNA; 20 BP.
XX
AC AAS00677;
XX
DT 07-SEP-2001 (first entry)
XX
DE Human consensus sequence 65677221-3-frag DNA probe.
XX
KW Wnt signalling pathway; FCTR; cytokine-like polypeptide; human; cancer;
KW immune system disorder; tissue proliferation; neurological disorder; ss;
KW septic shock; arthritis; Crohn's disease; anaphylaxis; haemophilia; EST;
KW stroke; inflammatory bowel disease; depressive disorder; mammary tumour;
KW cognitive disorder; psoriasis; clone 7971c.7; expressed sequence tag;
KW consensus sequence 65677221-3-frag; probe.
XX
OS Homo sapiens.
XX
PN WO200136644-A2.
XX
PD 25-MAY-2001.
XX
PF 17-NOV-2000; 2000WO-US31629.
XX
PR 18-NOV-1999; 99US-0166177.
PR 16-NOV-2000; 2000US-0166177.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Rastelli L, Lewin D, Taillon B, Andrew DP;
XX
DR WPI; 2001-329224/34.
XX
PT S100 cytokine-like polypeptide member of the Wnt signalling pathway
PT designated (FCTR) and the nucleic acid that encodes it, useful for
PT preventing, diagnosing and treating e.g. cancers and inflammation -
XX
PS Example 3; Page 86; 115pp; English.
XX
CC The sequence represents a DNA probe for expression analysis of human
CC consensus sequence 65677221-3-frag DNA which encompasses and extends the
CC human expressed sequence tag (EST) AA315020. AA315020 is similar to
CC murine clone 7971c.7 DNA which encodes a cytokine-like polypeptide member
CC of the Wnt signalling pathway and is expressed in murine mammary tumours.
CC Cytokine-like polypeptides and their associated polynucleotides are
CC termed FCTR polypeptides and FCTR polynucleotides. An alteration in the

CC amount of FCTR protein can result in a pathology related to a
CC dysfunction in the immune system, a tissue proliferation-associated
CC disorder, or a neurological disorder. The sequences of the invention may
CC be used in the prevention, diagnosis and treatment of diseases associated
CC with inappropriate FCTR expression, for example, by rectifying mutations
CC or deletions in a patient's genome that affect the activity of FCTR by
CC expressing inactive proteins, or by supplementing the patients own
CC production of FCTR. DNA molecules may be used to produce the FCTR
CC protein by transforming a host cell and culturing the cell to express the
CC protein. Examples of disorders associated with abnormal FCTR protein
CC expression include septic shock, arthritis, Crohn's disease, anaphylaxis,
CC stroke, haemophilia, cancer, inflammatory bowel disease, depressive
CC disorders, cognitive disorders, and psoriasis.
XX
SQ Sequence 20 BP; 7 A; 6 C; 5 G; 2 T; 0 other;

Query Match 86.7%; Score 13; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 catggtgctcact 15
|||||||
Db 20 CATGGTGCTCACT 8

RESULT 15
AAF26607
ID AAF26607 standard; DNA; 20 BP.
XX
AC AAF26607;
XX
DT 27-MAR-2001 (first entry)
XX
DE Maize metallothionein-like gene promoter (MTL) PCR primer SEQ ID NO:3.
XX
KW Maize; Agrobacterium; transformation; plant; Gramineae; MTL;
KW metallothionein-like gene promoter; Agrobacterium induced necrosis;
KW inhibition; fertile; gramineaceous plant; PCR primer; ss.
XX
OS Zea mays.

XX US6162965-A.
XX
PD 19-DEC-2000.
XX
PF 02-JUN-1998; 98US-0089111.
XX
PR 02-JUN-1997; 97US-0098564.
XX
PA (NOVS) NOVARTIS AG.
XX
PI Hansen G;
XX
DR WPI; 2001-090412/10.
XX

Agrobacterium transformation of gramineaceous plants involves utilizing
PT Agrobacterium-induced necrosis inhibiting agents such as AIN inhibiting
PT nucleotide sequences or chemical compounds, or by heat shock treatment
PT

XX Example 8; Column 18; 19pp; English.
XX
XX The present invention describes a method (M1) for transforming a
CC gramineaceous plant cell or tissue with a gene construct. The method
CC involves exposing the plant cell to Agrobacterium under conditions which
CC inhibit Agrobacterium induced necrosis (AIN) by the use of AIN inhibiting
CC agents such as chemical compounds, AIN inhibiting nucleotide sequences or
CC by heat shock treatment. Also described are: (1) a transgenic plant,
CC plant tissue or cell in whose genome a stably integrated nucleotide
CC sequence of heterologous origin which comprises a coding sequence of p35,
CC iap or dad-1 gene is present; and (2) a gramineaceous plant cell or tissue
CC culture medium comprising an ethylene inhibitor other than silver nitrate

.. .

CC or an ethylene synthesis inhibitor and an Agrobacterium comprising a
CC plasmid which has a gene construct. (M1) is useful for producing a
CC fertile transgenic plant, preferably a gramineaceous plant, e.g. maize
CC comprising a gene construct. The method involves transforming the plant
CC cell or tissue by exposing the plant cell or tissue to Agrobacterium
CC under conditions which inhibit AIN such as heat shocking, AIN inhibiting
CC nucleotide sequences stably integrated or transiently expressed or by use
CC of chemical inhibitors, and then regenerating the transformed plant cell
CC or tissue to produce the fertile transgenic plant. The fertile transgenic
CC maize plants comprise a genome having a stably integrated nucleotide
CC sequence of heterologous origin comprising a coding sequence of p35, iap
CC or dad-1 gene. The coding sequences preferably comprise maize preferred
CC codons. The present sequence represents a PCR primer which is used in an
CC example from the present invention.
XX

SQ Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 other;

Query Match 86.7%; Score 13; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatgggtgctca 13
|||||||
Db 6 tccatgggtgctca 18

Search completed: July 21, 2002, 03:56:31
Job time: 4300 sec

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OM nucleic - nucleic search, using sw model

Run on: July 20, 2002, 22:56:25 ; Search time 43.28 Seconds
(without alignments)
85.132 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15
Sequence: 1 tccatggtgtcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 613726

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query %		DB ID	Description
		Match	Length		
1	15	100.0	15	3 US-08-991-830A-3	Sequence 3, Appli
C 2	15	100.0	24	1 US-08-435-350-4	Sequence 4, Appli
	14	93.3	15	2 US-08-740-821-1	Sequence 1, Appli
	4	13	86.7	20 4 US-09-089-111-3	Sequence 3, Appli
5	13	86.7	26	4 US-08-463-691-18	Sequence 18, Appl
C 6	13	86.7	26	4 US-08-255-236-6	Sequence 6, Appli
	7	12.4	82.7	22 2 US-08-229-528-5	Sequence 5, Appli
	8	12.4	82.7	47 4 US-09-338-907-248	Sequence 248, App
9	12.4	82.7	47	4 US-09-218-207-248	Sequence 248, App
C 10	12	80.0	27	1 US-08-503-730-44	Sequence 44, Appl
	11	12	80.0	53 1 US-08-503-730-29	Sequence 29, Appl
C 12	12	80.0	62	1 US-08-503-730-30	Sequence 30, Appl
13	11.8	78.7	50	2 US-08-832-468-6	Sequence 6, Appli
C 14	11.8	78.7	54	1 US-08-363-240A-1077	Sequence 1077, Ap
	15	11.8	78.7	54 4 US-08-584-040-4423	Sequence 4423, Ap
C 15	11.8	78.7	64	1 US-08-290-592E-41	Sequence 41, Appl
C 16	11.8	78.7	64	5 PCT-US96-09448-41	Sequence 41, Appl
C 17	11.8	78.7	100	1 US-08-655-086-3	Sequence 3, Appli
	18	11.8	78.7	100 3 US-08-441-971-23	Sequence 23, Appl
19	11.8	78.7	100	4 US-08-221-653-23	Sequence 23, Appl
20	11.8	78.7	100	4 US-08-442-144A-23	Sequence 23, Appl
21	11.8	78.7	100	4 US-08-441-970-23	Sequence 23, Appl
22	11.8	78.7	100	4 US-08-441-970-23	Sequence 23, Appl
23	11.4	76.0	15	4 US-09-081-646-198	Sequence 198, App
24	11.4	76.0	20	3 US-09-280-799-190	Sequence 190, App
25	11.4	76.0	26	2 US-08-759-581B-16	Sequence 16, Appl
26	11.4	76.0	26	4 US-09-304-711-16	Sequence 16, Appl
C 27	11	73.3	14	5 PCT-US96-05611A-16	Sequence 16, Appl

C 28	11	73.3	15	4 US-08-268-381-1	Sequence 1, Appli
C 29	11	73.3	20	3 US-09-286-904-77	Sequence 77, Appl
C 30	11	73.3	27	1 US-08-083-948-9	Sequence 9, Appli
C 31	11	73.3	27	1 US-08-393-785-9	Sequence 9, Appli
C 32	11	73.3	27	1 US-08-475-694-9	Sequence 9, Appli
C 33	11	73.3	27	1 US-08-712-057-9	Sequence 9, Appli
	34	11	28	3 US-08-441-971-73	Sequence 73, Appl
35	11	73.3	28	4 US-08-221-653-73	Sequence 73, Appl
36	11	73.3	28	4 US-08-442-144A-73	Sequence 73, Appl
37	11	73.3	28	4 US-08-441-970-73	Sequence 73, Appl
38	11	73.3	30	4 US-09-243-374-9	Sequence 9, Appli
39	11	73.3	30	6 5310667-15	Patent No. 5310667
C 40	11	73.3	33	1 US-08-438-639-21	Sequence 21, Appl
	41	11	33	1 US-07-813-338A-21	Sequence 21, Appl
C 42	11	73.3	33	3 US-08-441-971-96	Sequence 96, Appl
C 43	11	73.3	33	4 US-08-221-653-96	Sequence 96, Appl
C 44	11	73.3	33	4 US-08-442-144A-96	Sequence 96, Appl
C 45	11	73.3	33	4 US-08-441-970-96	Sequence 96, Appl

ALIGNMENTS

RESULT 1
US-08-991-830A-3
; Sequence 3, Application US/08991830A
; Patent No. 6027892
; GENERAL INFORMATION:
; APPLICANT: Chang, Esther H.
; APPLICANT: Pirolo, Kathleen F.
; TITLE OF INVENTION: Compositions and Methods for Reducing Radiation and Drug R
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sana A. Pratt
; STREET: 10821 Hillbrooke Lane
; CITY: Potomac
; STATE: MARYLAND
; COUNTRY: USA
; ZIP: 20854
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 7.5
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/991,830A
; FILING DATE: 16 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/034,160
; FILING DATE: 30 December 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sana A. Pratt
; REGISTRATION NUMBER: 39,441
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 294-9171
; TELEFAX: (301) 294-7357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
US-08-991-830A-3

Query Match 100.0%; Score 15; DB 3; Length 15;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 tccatggtgtcact 15

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: MTL (P)
US-09-089-111-3

Query Match 86.7%; Score 13; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 tccatggtgtctca 13
|||||
Db 6 tccatggtgtctca 18

RESULT 5
US-08-463-691-18
; Sequence 18, Application US/08463691
; Patent No. 6165712
; GENERAL INFORMATION:
; APPLICANT: J. Gordon Foulkes et al.
; TITLE OF INVENTION: Methods of transcriptionally
; TITLE OF INVENTION: Modulating Expression of Viral Genes and Genes Useful for the
; TITLE OF INVENTION: Production of Proteins
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White, Esq.
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,691
; FILING DATE: 5-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 26134-G1Z
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-591-0525
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-463-691-18

Query Match 86.7%; Score 13; DB 4; Length 26;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 catggtgtctcact 15
|||||
Db 1 CATGGTGTCTCACT 13

RESULT 6
US-08-255-236-6
; Sequence 6, Application US/08255236
; Patent No. 6203976
; GENERAL INFORMATION:
; APPLICANT: Foulkes, J. Gordon
; TITLE OF INVENTION: METHODS OF TRANSCRIPTIONALLY MODULATING EXPRESSION OF
; TITLE OF INVENTION: VIRAL GENES AND GENES USEFUL FOR PRODUCTION OF PROTEINS
; FILE REFERENCE: 26134g1
; CURRENT APPLICATION NUMBER: US/08/255,236
; CURRENT FILING DATE: 1994-06-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Homo sapiens
US-08-255-236-6

Query Match 86.7%; Score 13; DB 4; Length 26;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 catggtgtctcact 15
|||||
Db 1 catggtgtctcact 13

RESULT 7
US-08-229-528-5/c
; Sequence 5, Application US/08229528
; Patent No. 5837447
; GENERAL INFORMATION:
; APPLICANT: GORSKI, Jack
; TITLE OF INVENTION: MONITORING AN IMMUNE RESPONSE BY ANALYSIS OF AMPLIFIED IMM
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: P. O. Box 1497
; CITY: Madison
; STATE: Wisconsin
; COUNTRY: USA
; ZIP: 53701-1497

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS 3.3
; SOFTWARE: WordPerfect, Version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/229,528
; FILING DATE: 18-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/868,569
; FILING DATE: 15-APR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Scanlon, William J.
; REGISTRATION NUMBER: 30,136
; REFERENCE/DOCKET NUMBER: 30383/133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (608) 258-4284
; TELEFAX: (608) 258-4258
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA oligonucleotide
US-08-229-528-5

TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-503-730-44

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Best Local Similarity 100.0%; Pred. No. 5.6e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatgggtgctca 13
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Db 16 CCATGGTGCTCA 5

RESULT 11
US-08-503-730-29/c
Sequence 29, Application US/08503730
Patent No. 5780269
GENERAL INFORMATION:
APPLICANT: Inouye, Sumiko
APPLICANT: Inouye, Masayori
TITLE OF INVENTION: NEW HYBRID MOLECULES
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weiser & Associates
STREET: 230 South Fifteenth Street Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/503,730
FILING DATE: 18-JUL-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/817,430
FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 377(913).6277P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 53 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: both
US-08-503-730-29

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Best Local Similarity 100.0%; Pred. No. 5.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatgggtgctca 13
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Db 13 CCATGGTGCTCA 2

RESULT 12
US-08-503-730-30/c
Sequence 30, Application US/08503730
Patent No. 5780269
GENERAL INFORMATION:
APPLICANT: Inouye, Sumiko
APPLICANT: Inouye, Masayori
TITLE OF INVENTION: NEW HYBRID MOLECULES
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weiser & Associates
STREET: 230 South Fifteenth Street Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/503,730
FILING DATE: 18-JUL-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/817,430
FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 377(913).6277P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 62 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: both
US-08-503-730-30

Query Match 80.0%; Score 12; DB 1; Length 62;
Best Local Similarity 100.0%; Pred. No. 5.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 13 CCATGGTGCTCA 2

RESULT 13
US-08-832-468-6
Sequence 6, Application US/08832468
Patent No. 5962237
GENERAL INFORMATION:
APPLICANT: Ts'o, Paul O.P.
APPLICANT: Wang, Zheng-pin
APPLICANT: Lesko, Stephen A.
APPLICANT: Nelson, William G.
APPLICANT: Partin, Alan W.
TITLE OF INVENTION: A METHOD OF ENRICHING RARE CELLS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leydig, Voit & Mayer, Ltd.
STREET: 700 Thirteenth St., NW
CITY: Washington
STATE: DC
COUNTRY: US
ZIP: 20005
COMPUTER READABLE FORM:

;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/832,468
;; FILING DATE:
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60-014929
;; FILING DATE: 05-APR-1996
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Jay, Jeremy M.
;; REGISTRATION NUMBER: 33587
;; REFERENCE/DOCKET NUMBER: 72466
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 202-737-6770
;; TELEFAX: 202-737-6776
;; INFORMATION FOR SEQ ID NO: 6:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 50 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: other nucleic acid (synthetic DNA)
US-08-832-468-6

Query Match 78.7%; Score 11.8; DB 2; Length 50;
Best Local Similarity 86.7%; Pred. No. 7.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 tccatggtgctcact 15
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Db 19 TCCATAGTGTCCCT 33

RESULT 14
US-08-363-240A-1077/c
; Sequence 1077, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:

;; NAME: Warburg, Richard
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 210/096
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 1077:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 54 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-08-363-240A-1077

Query Match 78.7%; Score 11.8; DB 1; Length 54;
Best Local Similarity 86.7%; Pred. No. 7.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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RESULT 15
US-08-584-040-4423/c
; Sequence 4423, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4423:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 54 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-584-040-4423

Query Match 78.7%; Score 11.8; DB 4; Length 54;
Best Local Similarity 86.7%; Pred. No. 7.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 tccatgggtgctcact 15
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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 21, 2002, 02:55:01 ; Search time 2682.64 Seconds
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Perfect score: 15
Sequence: 1 tccatgtgtcact 15

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	15	100.0	15	18	US-09-480-143-3	Sequence 3, Appli
3	15	100.0	15	28	US-09-716-320-3	Sequence 3, Appli
4	15	100.0	19	26	US-09-669-187A-13	Sequence 13, Appli
5	15	100.0	19	33	US-09-888-326-66	Sequence 66, Appli
6	15	100.0	19	37	US-10-017-995-13	Sequence 13, Appli
C 7	15	100.0	24	3	US-07-936-531A-4	Sequence 4, Appli
C 8	15	100.0	24	11	US-08-780-074-4	Sequence 4, Appli
9	15	100.0	51	56	US-60-172-373-13441	Sequence 13441, A
C 10	14	93.3	17	18	US-09-474-432B-576	Sequence 576, App
C 11	14	93.3	17	18	US-09-476-387-575	Sequence 575, App
C 12	14	93.3	17	31	US-09-825-805-575	Sequence 575, App
13	14	93.3	51	29	US-09-726-173A-2507	Sequence 2507, Ap
C 14	14	93.3	51	56	US-60-172-360-22019	Sequence 22019, A
C 15	14	93.3	51	66	US-60-278-232-5518	Sequence 5518, Ap
C 16	13.4	89.3	24	15	US-09-147-773A-1	Sequence 1, Appli
C 17	13.4	89.3	25	35	US-09-956-584-426077	Sequence 426077,
C 18	13.4	89.3	25	62	US-60-234-017-451230	Sequence 451230,
19	13.4	89.3	73	21	US-09-540-766-63011	Sequence 63011, A
20	13	86.7	14	10	US-08-666-341A-105	Sequence 105, App
21	13	86.7	14	17	US-09-341-700A-1137	Sequence 1137, Ap
C 22	13	86.7	15	18	US-09-406-643-256	Sequence 256, App
23	13	86.7	16	17	US-09-341-700A-325	Sequence 325, App
C 24	13	86.7	19	1	PCT-US01-25502-3	Sequence 3, Appli
C 25	13	86.7	19	16	US-09-234-208B-3	Sequence 3, Appli
C 26	13	86.7	19	24	US-09-630-155-3	Sequence 3, Appli
27	13	86.7	20	18	US-09-490-094-3	Sequence 9, Appli
C 28	13	86.7	20	28	US-09-715-418-9	Sequence 9, Appli
29	13	86.7	20	29	US-09-741-297-3	Sequence 3, Appli
30	13	86.7	26	3	US-07-644-233-18	Sequence 18, Appli
31	13	86.7	26	5	US-08-137-689-18	Sequence 18, Appli

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32      13      86.7      26      5      US-08-139-639-18      Sequence 18, Appl
33      13      86.7      39      68      US-60-298-340-23      Sequence 23, Appl
34      12.4      82.7      20      1      PCT-US00-00325-94      Sequence 94, Appl
35      12.4      82.7      20      16      US-09-232-785-94      Sequence 94, Appl
36      12.4      82.7      20      16      US-09-232-884-94      Sequence 94, Appl
37      12.4      82.7      22      3      US-07-868-569-5      Sequence 5, Appl
38      12.4      82.7      25      17      US-09-396-196F-53471      Sequence 53471, A
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41      12.4      82.7      25      26      US-09-660-220-137820      Sequence 137820,
42      12.4      82.7      25      35      US-09-954-427-52165      Sequence 52165, A
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44      12.4      82.7      25      74      US-60-353-987-688919      Sequence 688919,
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                                ALIGNMENTS

RESULT 1
US-09-406-643-255/C
; Sequence 255, Application US/09406643
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Ludwig, Janos
; APPLICANT: Sproat, Brian
; APPLICANT: Beigelman, Leonid
; TITLE OF INVENTION: Compositions Having RNA Cleaving Activity
; FILE REFERENCE: MBHB00-874-A (237/197)
; CURRENT APPLICATION NUMBER: US/09/406,643
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 08/879,078
; PRIOR FILING DATE: 1997-06-19
; PRIOR APPLICATION NUMBER: US 08/878,640
; PRIOR FILING DATE: 1997-06-19
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 255
; LENGTH: 15
; TYPE: RNA
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US-09-406-643-255

Query Match      100.0%; Score 15; DB 18; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.5e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1      tccatggtgctcact 15
Db      15      TCCATGGTGCTCACT 1

RESULT 2
US-09-480-143-3
; Sequence 3, Application US/09480143
; GENERAL INFORMATION:
; APPLICANT: Chang, Esther H.
; APPLICANT: Pirollo, Kathleen F.
; TITLE OF INVENTION: Compositions and Methods for Reducing Radiation and Drug Resis
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sana A. Pratt
; STREET: 10821 Hillbrooke Lane
; CITY: Potomac
; STATE: MARYLAND
; COUNTRY: USA
; ZIP: 20854
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 7.5
; SOFTWARE: Microsoft Word 6.0
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/480,143
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/991,830
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sana A. Pratt
; REGISTRATION NUMBER: 39,441
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 294-9171
; TELEFAX: (301) 294-7357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
US-09-480-143-3

Query Match      100.0%; Score 15; DB 18; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.5e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1      tccatggtgctcact 15
Db      1      TCCATGGTGCTCACT 15

RESULT 3
US-09-716-320-3
; Sequence 3, Application US/09716320
; GENERAL INFORMATION:
; APPLICANT: Chang, Esther H
; APPLICANT: Pirollo, Kathleen F
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REDUCING RADIATION AND DRUG RESIS
; FILE REFERENCE: 2444-109
; CURRENT APPLICATION NUMBER: US/09/716,320
; CURRENT FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: US 09/480,143
; PRIOR FILING DATE: 2000-01-10
; PRIOR APPLICATION NUMBER: US 08/991,830
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: US 60/034,160
; PRIOR FILING DATE: 1996-12-30
; PRIOR APPLICATION NUMBER: US 09/601,444
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: PCT/US98/24657
; PRIOR FILING DATE: 1998-11-19
; PRIOR APPLICATION NUMBER: US 60/066,188
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: US 60/083,175
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Human
US-09-716-320-3

Query Match      100.0%; Score 15; DB 28; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.5e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1      tccatggtgctcact 15
Db      1      tccatggtgctcact 15
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RESULT 4
US-09-669-187A-13
; Sequence 13, Application US/09669187A
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/669,187A
; CURRENT FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-669-187A-13

Query Match 100.0%; Score 15; DB 26; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 4 tccatggtgctcact 18

RESULT 5
US-09-888-326-66
; Sequence 66, Application US/09888326
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 66
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-66

Query Match 100.0%; Score 15; DB 33; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 4 tccatggtgctcact 18

RESULT 6
US-10-017-995-13
; Sequence 13, Application US/10017995
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-13

Query Match 100.0%; Score 15; DB 37; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|||||
Db 4 tccatggtgctcact 18

RESULT 7
US-07-936-531A-4/c
; Sequence 4, Application US/07936531A
; GENERAL INFORMATION:
; APPLICANT: James D. Thompson
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: TREATMENT OF BREAST CANCER
; NUMBER OF SEQUENCES: 118
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/936,531A
; FILING DATE: 19920826
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER:
; -FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 197/245
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:

```

; LENGTH: 24
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-936-531A-4

Query Match 100.0%; Score 15; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
   ||| ||| ||| ||| |||
Db 21 TCCATGGTGTCTCACT 7

RESULT 8
US-08-780-074-4/c
; Sequence 4, Application US/08780074
; GENERAL INFORMATION:
; APPLICANT: James D. Thompson
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: TREATMENT OF BREAST CANCER
; NUMBER OF SEQUENCES: 118
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,074
; FILING DATE: 23-DEC-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/936,531
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 197/245
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-780-074-4

Query Match 100.0%; Score 15; DB 11; Length 24;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
   ||| ||| ||| ||| |||
Db 21 TCCATGGTGTCTCACT 7

RESULT 9
US-60-172-373-13441
; Sequence 13441, Application US/60172373
```

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; GENERAL INFORMATION:
; APPLICANT: Morris, MacDonald
; APPLICANT: Lal, Preeti
; APPLICANT: Diep, Dinh
; TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
; TITLE OF INVENTION: Polynucleotide Sequence Databases, and Single Nucleotide Polym
; FILE REFERENCE: GX-0006 P
; CURRENT APPLICATION NUMBER: US/60/172,373
; CURRENT FILING DATE: 1999-12-16
; NUMBER OF SEQ ID NOS: 25,772
; SOFTWARE: PERL Program
; SEQ ID NO 13441
; LENGTH: 51
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: SNP00025363
; FEATURE:
; NAME/KEY: snp
; LOCATION: 26
; OTHER INFORMATION: 200140.2, 2095, G->A
US-60-172-373-13441

Query Match 100.0%; Score 15; DB 56; Length 51;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
   ||| ||| ||| ||| |||
Db 36 tccatggtgctcact 50

RESULT 10
US-09-474-432B-576/c
; Sequence 576, Application US/09474432B
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Burgin, Alex
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka
; APPLICANT: Sweedler, David
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucle
; FILE REFERENCE: MBHB00-831-B (247/276)
; CURRENT APPLICATION NUMBER: US/09/474,432B
; CURRENT FILING DATE: 1999-12-19
; PRIOR APPLICATION NUMBER: US 60/064,866
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/084,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: US 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: US 09/301,511
; PRIOR FILING DATE: 1999-04-28
; NUMBER OF SEQ ID NOS: 1526
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 576
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-474-432B-576

Query Match 93.3%; Score 14; DB 18; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccattggtgctcact 15
   ||| ||| ||| ||| |||
```

Db 17 CCATGGTGCTCACT 4

RESULT 11

US-09-476-387-575/c
; Sequence 575, Application US/09476387
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
; FILE REFERENCE: MBHB00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 575
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-476-387-575

Query Match 93.3%; Score 14; DB 18; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
| | | | | | | | | | | | | | |
Db 17 CCATGGTGCTCACT 4

RESULT 12

US-09-825-805-575/c
; Sequence 575, Application US/09825805
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
; FILE REFERENCE: MBHB00-831-F (400/009)
; CURRENT APPLICATION NUMBER: US/09/825,805
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 09/578,223
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 09/476,387
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29

; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1558
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 575
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-825-805-575

Query Match 93.3%; Score 14; DB 31; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
| | | | | | | | | | | | | | |
Db 17 CCATGGTGCTCACT 4

RESULT 13

US-09-726-173A-2507
; Sequence 2507, Application US/09726173A
; GENERAL INFORMATION:
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Leach, Martin D.
; TITLE OF INVENTION: NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AN
; TITLE OF INVENTION: USE THEREOF
; FILE REFERENCE: 15966-600
; CURRENT APPLICATION NUMBER: US/09/726,173A
; CURRENT FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: 60/168,138
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 7024
; SOFTWARE: CuraGen Patent Formatter Version 0.9
; SEQ ID NO 2507
; LENGTH: 51
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 1 of 2 allelic variants (2508 is other entry)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg39714236
US-09-726-173A-2507

Query Match 93.3%; Score 14; DB 29; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
| | | | | | | | | | | | | | |
Db 17 ccatggtgctcact 30

RESULT 14

US-60-172-360-22019/c
; Sequence 22019, Application US/60172360
; GENERAL INFORMATION:
; APPLICANT: Morris, MacDonald
; APPLICANT: Lal, Preeti
; APPLICANT: Diep, Dinh
; TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
; TITLE OF INVENTION: Polynucleotide Sequence Databases, and Single Nucleotide Poly
; FILE REFERENCE: GX-0007 P
; CURRENT APPLICATION NUMBER: US/60/172,360
; CURRENT FILING DATE: 1999-12-16
; NUMBER OF SEQ ID NOS: 29838
; SOFTWARE: PERL Program

; SEQ ID NO 22019
; LENGTH: 51
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: SNP00037393
; FEATURE:
; NAME/KEY: snp
; LOCATION: 26
; OTHER INFORMATION: 383094.3, 615, C->T
US-60-172-360-22019

Query Match 93.3%; Score 14; DB 56; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatgggtgctcac 14
|||
Db 29 TCCATGGTGCTCAC 16

RESULT 15
US-60-278-232-5518/c
; Sequence 5518, Application US/60278232
; GENERAL INFORMATION:
; APPLICANT: Morris, MacDonald
; APPLICANT: Lal, Preeti
; APPLICANT: Diep, Dinh
; TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
; TITLE OF INVENTION: Polynucleotide Sequence Databases, and Single Nucleotide
; TITLE OF INVENTION: Polymorphisms Identified Thereby
; FILE REFERENCE: GX-0011 P
; CURRENT APPLICATION NUMBER: US/60/278,232
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 12,557
; SOFTWARE: PERL Program
; SEQ ID NO 5518
; LENGTH: 51
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: SNP00047234
; NAME/KEY: snp
; LOCATION: 26
; OTHER INFORMATION: 245722.5, 91, G->A
US-60-278-232-5518

Query Match 93.3%; Score 14; DB 66; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatgggtgctcact 15
|||
Db 35 CCATGGTGCTCACT 22

Search completed: July 21, 2002, 04:41:36
Job time: 6395 sec

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OM nucleic - nucleic search, using sw model

Run on: July 21, 2002, 03:21:26 ; Search time 195.72 Seconds
(without alignments)
144.300 Million cell updates/sec

Title: US-09-716-320-3
Perfect score: 15
Sequence: 1 tccatggtgctcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1225709 seqs, 941415038 residues

Total number of hits satisfying chosen parameters: 629858

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_NA_New:*
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2: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*
3: /cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq:*
4: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
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6: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
7: /cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
C 1	15	100.0	15	5	US-09-498-824A-255
C 2	15	100.0	17	6	US-10-163-552-38
C 3	15	100.0	19	6	US-10-112-653-13
C 4	14	93.3	17	6	US-10-163-552-37
C 5	13	86.7	15	5	US-09-498-824A-256
C 6	13	86.7	17	6	US-10-163-552-39
C 7	13	86.7	19	5	US-09-638-834A-3
C 8	13	86.7	39	6	US-10-173-461-24
C 9	12.4	82.7	71	5	US-09-539-331D-9880
C 10	12	80.0	15	5	US-09-498-824A-1
C 11	11.8	78.7	17	6	US-10-138-674-6193
C 12	11.8	78.7	17	6	US-10-138-674-6194
C 13	11.8	78.7	17	6	US-10-138-674-8504
C 14	11.8	78.7	19	5	US-09-909-567B-34
C 15	11.8	78.7	54	6	US-10-138-674-11609
C 16	11.8	78.7	60	6	US-10-149-187-4
C 17	11.8	78.7	100	6	US-10-104-545-3
C 18	11.4	76.0	20	5	US-09-922-549B-20
C 19	11.4	76.0	20	5	US-09-937-473C-190
C 20	11.4	76.0	24	5	US-09-792-468-2
C 21	11.4	76.0	26	6	US-10-027-632-52388
C 22	11.4	76.0	66	5	US-09-284-349A-2
C 23	11	73.3	14	4	US-08-431-644B-16
C 24	11	73.3	99	5	US-09-975-254-16421
C 25	10.8	72.0	18	6	US-10-108-732-12
C 26	10.8	72.0	20	5	US-09-544-398A-404
					Sequence 255, Appl
					Sequence 38, Appl
					Sequence 13, Appl
					Sequence 37, Appl
					Sequence 256, Appl
					Sequence 39, Appl
					Sequence 3, Appl
					Sequence 24, Appl
					Sequence 9880, Ap
					Sequence 1, Appli
					Sequence 6193, Ap
					Sequence 6194, Ap
					Sequence 8504, Ap
					Sequence 34, Appl
					Sequence 11609, A
					Sequence 4, Appli
					Sequence 3, Appli
					Sequence 20, Appl
					Sequence 190, App
					Sequence 2, Appli
					Sequence 52388, A
					Sequence 2, Appli
					Sequence 16, Appl
					Sequence 16421, A
					Sequence 12, Appl
					Sequence 404, App

C 27	10.8	72.0	20	5	US-09-544-398B-404	Sequence 404, App
C 28	10.8	72.0	24	5	US-09-978-403A-53	Sequence 53, Appl
C 29	10.8	72.0	24	5	US-09-978-544A-53	Sequence 53, Appl
C 30	10.8	72.0	24	5	US-09-978-681A-53	Sequence 53, Appl
C 31	10.8	72.0	24	5	US-09-978-757A-53	Sequence 53, Appl
C 32	10.8	72.0	24	5	US-09-978-564A-53	Sequence 53, Appl
C 33	10.8	72.0	24	5	US-09-999-831A-53	Sequence 53, Appl
C 34	10.8	72.0	24	5	US-09-999-829A-53	Sequence 53, Appl
C 35	10.8	72.0	24	5	US-09-978-375A-53	Sequence 53, Appl
C 36	10.8	72.0	24	5	US-09-978-423A-53	Sequence 53, Appl
C 37	10.8	72.0	24	6	US-10-013-921A-53	Sequence 53, Appl
C 38	10.8	72.0	24	6	US-10-013-929A-53	Sequence 53, Appl
C 39	10.8	72.0	24	6	US-10-013-918A-53	Sequence 53, Appl
C 40	10.8	72.0	24	6	US-10-017-082A-53	Sequence 53, Appl
C 41	10.8	72.0	24	6	US-10-017-085A-53	Sequence 53, Appl
C 42	10.8	72.0	24	6	US-10-013-916A-53	Sequence 53, Appl
C 43	10.8	72.0	24	6	US-10-017-086A-53	Sequence 53, Appl
C 44	10.8	72.0	24	6	US-10-013-925A-53	Sequence 53, Appl
C 45	10.8	72.0	24	6	US-10-017-081A-53	Sequence 53, Appl

ALIGNMENTS

RESULT 1
US-09-498-824A-255/c
; Sequence 255, Application US/09498824A
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Ludwig, Janos
; APPLICANT: Sproat, Brian
; APPLICANT: Beigelman, Leo
; TITLE OF INVENTION: Compositions Having RNA Cleaving Activity
; FILE REFERENCE: MBHB00-874-D (247/280)
; CURRENT APPLICATION NUMBER: US/09/498,824A
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 09/406,643
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 08/878,640
; PRIOR FILING DATE: 1997-06-19
; PRIOR APPLICATION NUMBER: US 08/879,078
; PRIOR FILING DATE: 1997-06-19
; NUMBER OF SEQ ID NOS: 3516
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 255
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-498-824A-255

Query Match 100.0%; Score 15; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 tccatggtgctcact 15
Db 15 TCCATGGTGCTCACT 1

RESULT 2
US-10-163-552-38/c
; Sequence 38, Application US/10163552
; GENERAL INFORMATION:
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to 1
; TITLE OF INVENTION: HER2
; FILE REFERENCE: MBHB01-1653-A (400/014)
; CURRENT APPLICATION NUMBER: US/10/163,552
; CURRENT FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 1997
; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 38
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-163-552-38

Query Match 100.0%; Score 15; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
| | | | | | | | | | | | | | |
Db 16 TCCATGGTGCTCACT 2

RESULT 3
US-10-112-653-13
; Sequence 13, Application US/10112653
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-13

Query Match 100.0%; Score 15; DB 6; Length 19;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
| | | | | | | | | | | | | | |
Db 4 tccatggtgctcact 18

RESULT 4
US-10-163-552-37/c
; Sequence 37, Application US/10163552
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to level
; TITLE OF INVENTION: HER2
; FILE REFERENCE: MBHB01-1653-A (400/014)
; CURRENT APPLICATION NUMBER: US/10/163,552
; CURRENT FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 1997
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 37
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-163-552-37

Query Match 93.3%; Score 14; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
| | | | | | | | | | | | | | |
Db 17 CCATGGTGCTCACT 4

RESULT 5
US-09-498-824A-256/c
; Sequence 256, Application US/09498824A
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Ludwig, Janos
; APPLICANT: Sproat, Brian
; APPLICANT: Beigelman, Leo
; TITLE OF INVENTION: Compositions Having RNA Cleaving Activity
; FILE REFERENCE: MBHB00-874-D (247/280)
; CURRENT APPLICATION NUMBER: US/09/498,824A
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 09/406,643
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 08/878,640
; PRIOR FILING DATE: 1997-06-19
; PRIOR APPLICATION NUMBER: US 08/879,078
; PRIOR FILING DATE: 1997-06-19
; NUMBER OF SEQ ID NOS: 3516
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 256
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-498-824A-256

Query Match 86.7%; Score 13; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctca 13
| | | | | | | | | | | | |
Db 13 TCCATGGTGCTCA 1

RESULT 6
US-10-163-552-39/c
; Sequence 39, Application US/10163552
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to le
; TITLE OF INVENTION: HER2
; FILE REFERENCE: MBHB01-1653-A (400/014)
; CURRENT APPLICATION NUMBER: US/10/163,552
; CURRENT FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 1997
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 39
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-163-552-39

Query Match 86.7%; Score 13; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 tccatggtgctca 13
| | | | | | | | | | | | |
Db 13 TCCATGGTGCTCA 1

RESULT 7
US-09-638-834A-3/c
; Sequence 3, Application US/09638834A


```
; GENERAL INFORMATION:
; APPLICANT: Clinton, Gail M.
; TITLE OF INVENTION: Expression of Herstatin, an Alternative HER-2/NEU Product, in Cel
; TITLE OF INVENTION: Express either p185HER-2 or the EGF Receptor Inhibits Receptor A
; TITLE OF INVENTION: Growth
; FILE REFERENCE: 49321-12
; CURRENT APPLICATION NUMBER: US/09/638,834A
; CURRENT FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: US 09/234,208
; PRIOR FILING DATE: 1999-01-20
; PRIOR APPLICATION NUMBER: US 09/506,079
; PRIOR FILING DATE: 2000-01-16
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 3
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HER-2-specific oligonucleotide primer
US-09-638-834A-3

Query Match      86.7%; Score 13; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 tccatgggtgctca 13
Db 13 TCCATGGTGCTCA 1

RESULT 8
US-10-173-461-24/c
; Sequence 24, Application US/10173461
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN GROWTH FACTOR WITH HOMOLOG
; TITLE OF INVENTION: EPIDERMAL GROWTH FACTOR, BGS-8, EXPRESSED HIGHLY IN IMMUNE TISSU
; FILE REFERENCE: D0166 NP
; CURRENT APPLICATION NUMBER: US/10/173,461
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: US 60/298,340
; PRIOR FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 24
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-173-461-24

Query Match      86.7%; Score 13; DB 6; Length 39;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 catgggtgctcact 15
Db 39 CATGGTGCTCACT 27

RESULT 9
US-09-539-331D-9880
; Sequence 9880, Application US/09539331D
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES OF CARDIOVASCULAR SYSTEM TISSUE
; FILE REFERENCE: PD-1022 CIP
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; CURRENT APPLICATION NUMBER: US/09/539,331D
; CURRENT FILING DATE: 2000-03-30
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 40961
; SOFTWARE: PERL Program
; SEQ ID NO 9880
; LENGTH: 71
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: hu00367562
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 17, 47
; OTHER INFORMATION: a, t, c, g, or other
US-09-539-331D-9880

Query Match      82.7%; Score 12.4; DB 5; Length 71;
Best Local Similarity 86.7%; Pred. No. 2.1e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 tccatgggtgctcact 15
Db 40 tccatggngctgact 54

RESULT 10
US-09-498-824A-1/c
; Sequence 1, Application US/09498824A
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Ludwig, Janos
; APPLICANT: Sproat, Brian
; APPLICANT: Beigelman, Leo
; TITLE OF INVENTION: Compositions Having RNA Cleaving Activity
; FILE REFERENCE: MBHB00-874-D (247/280)
; CURRENT APPLICATION NUMBER: US/09/498,824A
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 09/406,643
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 08/878,640
; PRIOR FILING DATE: 1997-06-19
; PRIOR APPLICATION NUMBER: US 08/879,078
; PRIOR FILING DATE: 1997-06-19
; NUMBER OF SEQ ID NOS: 3516
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-498-824A-1

Query Match      80.0%; Score 12; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 tccatgggtgctc 12
Db 12 TCCATGGTGCTC 1

RESULT 11
US-10-138-674-6193/c
; Sequence 6193, Application US/10138674
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
```

; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6193
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-6193

Query Match 78.7%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 4.4e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatgggtgctcact 15
||||| || |||||
Db 17 TCCATGTTGGTCACT 3

RESULT 12
US-10-138-674-6194/c
; Sequence 6194, Application US/10138674
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6194
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-6194

Query Match 78.7%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 4.4e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatgggtgctcact 15
||||| || |||||
Db 16 TCCATGTTGGTCACT 2

RESULT 13
US-10-138-674-8504/c
; Sequence 8504, Application US/10138674
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8504
; LENGTH: 17

; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-8504

Query Match 78.7%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 4.4e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatgggtgctcact 15
||||| || |||||
Db 15 TCCATGTTGGTCACT 1

RESULT 14
US-09-909-567B-34/c
; Sequence 34, Application US/09909567B
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto A.
; APPLICANT: Nair, Manoj
; APPLICANT: Chen, Seliyu
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes
; FILE REFERENCE: DEX-0214
; CURRENT APPLICATION NUMBER: US/09/909,567B
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/219,834
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-09-909-567B-34

Query Match 78.7%; Score 11.8; DB 5; Length 19;
Best Local Similarity 86.7%; Pred. No. 4.4e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatgggtgctcact 15
||||| ||||| ||
Db 16 TCCACGGTGCTCCCT 2

RESULT 15
US-10-138-674-11609/c
; Sequence 11609, Application US/10138674
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11609
; LENGTH: 54
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-10-138-674-11609

Query Match 78.7%; Score 11.8; DB 6; Length 54;

Best Local Similarity 86.7%; Pred. NO. 4.5e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
|| |||||
Db 26 TCTCTGGTGCTCACT 12

Search completed: July 21, 2002, 04:45:12
Job time: 5026 sec

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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 20, 2002, 22:39:45 ; Search time 1566.41 Seconds
(without alignments)
129.247 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatggtgctcact 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 297742

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:*

- 1: em_estba:*
- 2: em_esthum:*
- 3: em_estin:*
- 4: em_estmu:*
- 5: em_estov:*
- 6: em_estpl:*
- 7: em_estro:*
- 8: em_htc:*
- 9: gb_estl:*
- 10: gb_est2:*
- 11: gb_htc:*
- 12: gb_gss:*
- 13: em_gss_hum:*
- 14: em_gss_inv:*
- 15: em_gss_pln:*
- 16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	13.4	89.3	75	10	BM023447
2	12.4	82.7	58	9	AI022662 ox05h11.x
3	12.4	82.7	74	9	AL362924
4	12.4	82.7	77	10	W15664
c 5	12.4	82.7	80	9	AV832470
c 6	12	80.0	62	12	AZ648327
7	12	80.0	82	12	TA138D06P
c 8	12	80.0	85	9	AI930840
9	12	80.0	90	9	AA690354
c 10	12	80.0	92	12	AZ590927
c 11	11.8	78.7	38	12	TA358F01P
12	11.8	78.7	65	9	AA285022
13	11.8	78.7	72	12	AZ799758
c 14	11.8	78.7	89	10	BI472373
15	11.8	78.7	91	9	AV834264
16	11.8	78.7	92	10	D18160
17	11.8	78.7	97	10	T62112

18	11.8	78.7	99	12	AZ433742
c 19	11.8	78.7	100	9	AA865812
c 20	11.4	76.0	22	12	AZ954618
c 21	11.4	76.0	46	9	AA591686
22	11.4	76.0	50	9	AA108275
c 23	11.4	76.0	50	9	AU102591
c 24	11.4	76.0	50	9	AU102592
c 25	11.4	76.0	50	9	AU102593
c 26	11.4	76.0	50	9	AU102594
c 27	11.4	76.0	50	9	AU102595
c 28	11.4	76.0	50	9	AU107574
c 29	11.4	76.0	56	9	AI656187
30	11.4	76.0	68	10	T72238
c 31	11.4	76.0	73	9	AA220616
c 32	11.4	76.0	74	10	BF528890
33	11.4	76.0	77	9	AA387938
34	11.4	76.0	77	10	T62949
35	11.4	76.0	85	9	AI167298
36	11.4	76.0	85	9	AA469098
37	11.4	76.0	85	9	AA529090
38	11.4	76.0	90	9	AA213781
39	11.4	76.0	91	9	AA089130
c 40	11.4	76.0	97	12	AZ834937
c 41	11.4	76.0	100	9	AW437175
42	11.4	76.0	100	9	AW809349
43	11.4	76.0	100	10	BF807260
c 44	11	73.3	31	9	AA981706
45	11	73.3	61	9	AI676111

ALIGNMENTS

RESULT 1	BM023447	75 bp	mrna	linear	EST 30-OCT-2001
BM023447/c	ie80el0.y1	Melton Normalized Human Islet 4	N4-HIS 1	Homo sapiens	
LOCUS	CDNA 5', mRNA sequence.				
DEFINITION	BM023447				
ACCESSION	BM023447.1	GI:16537803			
VERSION	EST.				
KEYWORDS	human.				
SOURCE	Homo sapiens				
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 75)				
AUTHORS	Melton,D., Brown,J., Kenty,G., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Scearce,M., Brestelli,J., Gradwohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blistain,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas ,M., Gibbons,M., McCann,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.				
TITLE	Endocrine Pancreas Consortium				
JOURNAL	Unpublished (2000)				
COMMENT	Other_ESTs: ie80el0.x1				
	Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue				
	Endocrine Pancreas Consortium				
	Harvard University, Howard Hughes Medical Institute				
	Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138				
	Tel: 617-495-1812				
	Fax: 617-495-8557				
	Email: dmelton@biohp.harvard.edu				
	Library was constructed by Dr. Douglas Melton DNA sequencing by: Washington University Genome Sequencing Center For information on obtaining a clone please contact: Juliana Brown (brown@fas.harvard.edu)				
	putative full length read				
	vector to vector length is 76.				
FEATURES	Location/Qualifiers				
	1. .75				
	/organism="Homo sapiens"				
	/db_xref="taxon:9606"				

/clone_lib="Melton Normalized Human Islet 4 N4-HIS 1".
/sex="Both"
/tissue_type="Islets of Langerhans"
/dev_stage="Adult"
/lab_host="DH10B"
/note="Organ: Pancreas; Vector: pSPORT1; Site_1: Not 1;
Site_2: Sal 1; Starting library constructed using
SuperScript Plasmid Library kit (Life Technologies). cDNA
made by oligo-dT priming. Size-selected by column
fractionation; average insert size 1.08 kb. Library was
amplified once on solid support and plasmid DNA from
library was prepared. The library DNA was normalized by
method #4 from Bonaldo, Lennon, and Soares 1996 Genome
Research 6:791-806; 0.5 microgram single-stranded library
plasmid DNA was mixed with 5 micrograms PCR product
representing library inserts and hybridized to an EcoT of
20. Single-stranded (unhybridized) plasmids were isolated
by hydroxyapatite chromatography and used to make this
library."

BASE COUNT 23 a 25 c 12 g 15 t
ORIGIN

Query Match 89.3%; Score 13.4; DB 10; Length 75;
Best Local Similarity 93.3%; Pred. No. 5.8e+03;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
| | | | | | | | | |
Db 50 TACATGGTGCTCACT 36

RESULT 2

AI022662 58 bp mRNA linear EST 18-JUN-1998
LOCUS ox05hl1.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA
DEFINITION clone IMAGE:1655493 3' similar to SW:TCX1 HUMAN Q15763 T-COMPLEX
TESTIS-SPECIFIC PROTEIN 1 HOMOLOG ;, mRNA sequence.

ACCESSION AI022662
VERSION AI022662.1 GI:3237903
KEYWORDS EST.
SOURCE human.

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE NCI-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

JOURNAL Unpublished (1997)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality

Seq primer: -40ml3 fwd. ET from Amersham

High quality sequence stop: 1.

FEATURES Location/Qualifiers

source 1..58
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1655493"
/clone_lib="Soares_fetal_liver_spleen_1NFLS_S1"
/sex="male"
/dev_stage="20 week-post conception fetus"
/lab_host="DH10B (ampicillin resistant)"

/note="Organ: Liver and Spleen; Vector: pT7T3D (Pharmacia)
with a modified polylinker; Site_1: Pac I; Site_2: Eco RI;
This is a substracted version of the original Soares fetal
liver spleen 1NFLS library. 1st strand cDNA was primed
with a Pac I - oligo(dT) primer [5',
AACTGGAAGAATTAATAAGATCTTTTTTTTTTTTTTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors

(Pharmacia), digested with Pac I and cloned into the Pac I
and Eco RI sites of the modified pT7T3 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M.Fatima Bonaldo."

BASE COUNT 14 a 18 c 8 g 17 t
ORIGIN

Query Match 82.7%; Score 12.4; DB 9; Length 58;
Best Local Similarity 92.9%; Pred. No. 1.7e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
| | | | | | | | | |
Db 37 CAATGGTGCTCACT 50

RESULT 3

AL362924 74 bp mRNA linear EST 04-AUG-2000
LOCUS AL362924 ICRFP 522 and 523 Mus musculus cDNA clone K9303B05 5',
DEFINITION mRNA sequence.

ACCESSION AL362924
VERSION AL362924.1 GI:9692322
KEYWORDS EST.
SOURCE house mouse.

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 74)

REFERENCE Eickhoff,H., Schuchhardt,J., Ivanov,I., Meier-Ewert,S., O'Brien,J.,
AUTHORS Malik,A., Tandon,N., Wolski,E., Rohlf,s,E., Nyarsik,L., Reinhardt,R.,
, Nietfeld,W. and Lehrach,H.

Tissue gene expression analysis using arrayed normalized cDNA
libraries

JOURNAL Genome Res. (2000) In press

COMMENT Contact: MPIMG

Abt.Lehrach

Max Planck Institut Fuer Molekulare Genetik

Ilnestrasse 73, Berlin, 14195 Germany

The cDNA libraries ICRFP 522 and 523 were normalized with
oligonucleotide fingerprinting, resulting in a unique subset of
5376 cDNA clones.

FEATURES

source Location/Qualifiers
1..74
/organism="Mus musculus"
/strain="Black 6"
/db_xref="taxon:10090"
/clone="K9303B05"
/clone_lib="ICRFP 522 and 523"
/tissue_type="embryo"
/dev_stage="9 and 12 pc embryo"
22 a 14 c 26 g 12 t

Query Match 82.7%; Score 12.4; DB 9; Length 74;
Best Local Similarity 92.9%; Pred. No. 1.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ccatggtgctcact 15
| | | | | | | | | |
Db 8 CCATGGTGCTCTCT 21

RESULT 4

W15664 77 bp mRNA linear EST 10-SEP-1996
LOCUS mb52g02.r1 Soares mouse p3NMF19.5 Mus musculus cDNA clone
DEFINITION IMAGE:333027 5' similar to gb:V00714 Mouse gene for alpha-globin
(MOUSE);, mRNA sequence.

ACCESSION W15664
VERSION W15664.1 GI:1290047

KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 77)

AUTHORS Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.

TITLE The WashU-HHMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of Medicinep
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:214427

Seq primer: ETPrimer
High quality sequence stop: 70.

FEATURES
source Location/Qualifiers
1. .77
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:333027"
/dev_stage="19.5 dpc total fetus"
/lab_host="DH10B (ampicillin resistant)"
/note="Vector: pT7T3D (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAAGTGGGAGCGCGCATTTTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library went through one round of normalization to a Cot = 5. Library constructed by Bento Soares and M.Fatima Bonaldo. RNA was kindly provided by Dr. Minoru Ko (Wayne State University)."

BASE COUNT 23 a 15 c 28 g 11 t
ORIGIN

Query Match 82.7%; Score 12.4; DB 10; Length 77;
Best Local Similarity 92.9%; Pred. No. 1.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ccattggtgctcact 15
|||||
Db 18 CCATGGTGCTCTCT 31

RESULT 5
AV832470/c

LOCUS AV832470 K. Sato unpublished cDNA library: EST 22-JUN-2001
DEFINITION vulgare leaves vegetative stage Hordeum vulgare subsp. vulgare CDNA clone baak3f24, mRNA sequence.

ACCESSION AV832470
VERSION AV832470.1 GI:14524559
KEYWORDS EST.
SOURCE Hordeum vulgare subsp. vulgare.
ORGANISM Hordeum vulgare subsp. vulgare
Eukaryota; Viridiplantae; Streptophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae ; Triticeae; Hordeum.
REFERENCE 1 (bases 1 to 80)
AUTHORS Sato,K.

TITLE Barley EST sequencing project in NIG and Okayama Univ
JOURNAL Unpublished (2001)
COMMENT Contact: Kazuhiro Sato
Research Institute for Bioresources
Okayama University, Barley Germplasm Center
Chuo 2-20-1, Kurashiki, Okayama 710-0046, Japan
Email: kazsato@rib.okayama-u.ac.jp,
URL:http://www.rib.okayama-u.ac.jp/barley/
Sato,K., Saisho,D., Takeda,K., Shini,T. and Kohara,Y. Direct submission;
database:http://www.shigen.nig.ac.jp/barley/Barley.html.

FEATURES
source Location/Qualifiers
1. .80
/organism="Hordeum vulgare subsp. vulgare"
/cultivar="Akashinriki"
/db_xref="taxon:112509"
/clone="baak3f24"
vulgare subsp. vulgare leaves vegetative stage"
/tissue_type="leaves"
/dev_stage="vegetative stage"

BASE COUNT 25 a 13 c 22 g 14 t 6 others
ORIGIN

Query Match 82.7%; Score 12.4; DB 9; Length 80;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ccattggtgctcact 15
|||||
Db 14 CCATGGTGCTCTCT 1

RESULT 6
AZ648327/c

LOCUS AZ648327
DEFINITION 1M0517K13F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0517K13 F, DNA sequence.

ACCESSION AZ648327
VERSION AZ648327.1 GI:11780683
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 62)

REFERENCE
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0517 row: K column: 13
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 62.

FEATURES
source Location/Qualifiers
1. .62
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0517K13"

```
/clone_lib="Mouse 10kb plasmid UUGClm library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
```

BASE COUNT 11 a 20 c 15 g 16 t
ORIGIN

Query Match 80.0%; Score 12; DB 12; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.7e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ccattggtgtcta 13
|||||||
Db 45 CCATGGTGCTCA 34

RESULT 7
TA138D06P

LOCUS TA138D06P 82 bp DNA linear GSS 13-DEC-2000
DEFINITION T. brucei sheared genomic DNA clone 138d06, forward sequence,
genomic survey sequence.
ACCESSION AL465857
VERSION AL465857.1 GI:11835283
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.

REFERENCE 1 (bases 1 to 82)
AUTHORS Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R.,
Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L.,
Melville,S.E., Rajandream,M.A. and Barrell,B.G.
TITLE Direct Submission
JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nhl@sanger.ac.uk
COMMENT Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (
4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.

FEATURES
source
1..82
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"

```
/clone="138d06"
33 a 13 c 12 g 24 t  
BASE COUNT  
ORIGIN
```

Query Match 80.0%; Score 12; DB 12; Length 82;
Best Local Similarity 100.0%; Pred. No. 3e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 atggtgctcact 15
|||||||
Db 60 ATGGTGCTCACT 71

RESULT 8
AI930840/c

LOCUS AI930840 85 bp mRNA linear EST 30-NOV-2001
DEFINITION sb43a06.y1 Gm-cl015 Glycine max cDNA clone GENOME SYSTEMS CLONE ID:
Gm-cl015-11 5' similar to TR:Q40290 Q40290 CAS15. [2] TR:Q40334 ;,
mRNA sequence.
ACCESSION AI930840
VERSION AI930840.1 GI:5666804
KEYWORDS EST.
SOURCE soybean.
ORGANISM Glycine max
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
Glycine.

REFERENCE 1 (bases 1 to 85)
AUTHORS Shoemaker,R., Keim,P., Vodkin,L., Erpelding,J., Coryell,V., Khanna
,A., Bolla,B., Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C.,
Wyllie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers
,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk
,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann
,R., Waterston,R. and Wilson,R.
TITLE Public Soybean EST Project
JOURNAL Unpublished (1999)
COMMENT Contact: Shoemaker R/Public Soybean EST Project
Public Soybean EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand This clone is
available through: ResGen, Invitrogen Corp. 2130 South Memorial
Parkway Huntsville, AL 35801 For further information call: (800
)-533-4363 or contact via email: ccu@resgen.com
Seq primer: -40RP from Gibco
High quality sequence stop: 1.
Location/Qualifiers
1..85
/organism="Glycine max"
/db_xref="taxon:3847"
/clone="GENOME SYSTEMS CLONE ID: Gm-cl015-11"
/clone_lib="Gm-cl015"
/tissue_type="Mature flowers, field grown plants"
/lab_host="XL10-Gold"
/note="Vector: pBluescript II XR; Site_1: EcoRI; Site_2:
XhoI; This cDNA library was constructed from mRNA isolated
from mature flowers of field grown plants. The cDNA
library was prepared using the Stratagene pBluescript II
XR cDNA library construction kit. Complementary DNA was
synthesized from mRNA using a primer consisting of a poly
(dT) sequence with a XhoI restriction site. EcoRI adaptors
were ligated to the blunt-ended cDNA fragments followed by
XhoI digestion. The cDNA fragments were directionally
cloned into the EcoRI-XhoI restriction site of the
pBluescript vector. The ligated cDNA fragments were
transformed into XL10-Gold host cells. This library was
constructed by Dr. Randy Shoemaker and Dr. John

QY 3 catggtgctcac 14
|||||
Db 16 CATGGTGTCTCAC 5

RESULT 11
TA358F01P/c
LOCUS TA358F01P 38 bp DNA linear GSS 13-DEC-2000
DEFINITION T. brucei sheared genomic DNA clone 358f01, forward sequence,
genomic survey sequence.
ACCESSION AL494114
VERSION AL494114.1 GI:11870743
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.
1 (bases 1 to 38)
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,
Melville, S.E., Rajandream, M.A. and Barrell, B.G.
Direct Submission
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nhl@sanger.ac.uk
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (
4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.

FEATURES
source
1..38
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="358f01"

BASE COUNT 16 a 5 C 6 g 11 t

Query Match 78.7%; Score 11.8; DB 12; Length 38;
Best Local Similarity 86.7%; Pred. No. 2.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
||||| ||| ||||
Db 30 TCCATGTTGCACACT 16

RESULT 12
AA285022 65 bp mRNA linear EST 15-MAY-1997
LOCUS zt25e10.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone
DEFINITION IMAGE:714186 3' similar to gb:X57809 IG LAMBDA CHAIN C REGIONS
(HUMAN);, mRNA sequence.
ACCESSION AA285022
VERSION AA285022.1 GI:1927703
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 65)
REFERENCE Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
AUTHORS Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B.

, Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie
, T., Waterston, R. and Wilson, R.
WashU-Merck EST Project 1997
Unpublished (1997)
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -41m13 fwd. ET from Amersham.

FEATURES
Location/Qualifiers
1..65
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:714186"
/clone_lib="Soares ovary tumor NbHOT"
/sex="Female"
/tissue_type="ovarian tumor"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: ovary; Vector: pT7T3D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGCGCGCGGTTTTTTTTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT7T3 vector
(Pharmacia). Library constructed by Bento Soares and
M.Fatima Bonaldo."

BASE COUNT 7 a 21 c 17 g 20 t

ORIGIN

Query Match 78.7%; Score 11.8; DB 9; Length 65;
Best Local Similarity 86.7%; Pred. No. 3.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
||||| ||||| ||
Db 23 TCCACGGTGCTCCCT 37

RESULT 13
AZ799758 72 bp DNA linear GSS 16-FEB-2001
LOCUS 2M0057G19F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC2M0057G19 F, DNA sequence.
ACCESSION AZ799758
VERSION AZ799758.1 GI:12951196
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 72)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00

Plate: 0057 row: G column: 19
Seq primer: CGTTGTAAACGACGGCCAGT
Class: plasmid ends
High quality sequence stop: 72.

FEATURES
source

Location/Qualifiers
1. .72
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0057G19"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 13 a 18 c 16 g 25 t
ORIGIN

Query Match 78.7%; Score 11.8; DB 12; Length 72;
Best Local Similarity 86.7%; Pred. No. 3.6e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
||||| ||||| |
Db 48 TCCATGTTGCTCATT 62

RESULT 14
BI472373/C

LOCUS BI472373 89 bp mRNA linear EST 24-AUG-2001
DEFINITION fs02d01.y1 zebrafish adult olfactory Danio rerio cDNA clone 5002416
5', mRNA sequence.

ACCESSION BI472373
VERSION BI472373.1 GI:15288482
KEYWORDS EST.
SOURCE zebrafish.

ORGANISM

Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes
; Cyprinidae; Danio.

REFERENCE

AUTHORS 1 (bases 1 to 89)
Clark,M., Johnson,S.L., Lehrach,H., Lee,R., Li,F., Marra,M., Eddy
,S., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T., Underwood
,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B.,
Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E.,
Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R.
and Wilson,R.

TITLE WashU Zebrafish EST Project 1998
JOURNAL Unpublished (1998)

COMMENT

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Missouri (web address: www.genomesystems.com) (email contact:
info@genomesystems.com) and Research Genetics, Huntsville, Alabama
(web address: www.resgen.com) (email contact: info@resgen.com) and
RessourcenzentrumPrimarDatenbank, Berlin, Germany (web address:
www.rzpd.de).

FEATURES
source

Location/Qualifiers
1. .89
/organism="Danio rerio"
/db_xref="taxon:7955"
/clone="5002416"
/clone_lib="Zebrafish adult olfactory"
/sex="mixed"
/tissue_type="Olfactory rosettes"
/dev_stage="adult"
/lab_host="D10Hb (Gibco BRL)"
/note="Vector: pSPORT1; Site_1: NotI; Site_2: SalI; This
is a directionally cloned cdNA library from adult
Zebrafish olfactory epithelium."

BASE COUNT 26 a 21 c 25 g 17 t
ORIGIN

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Best Local Similarity 86.7%; Pred. No. 3.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
||||| ||||| |
Db 67 TCCATGTTCTCTCT 53

RESULT 15
AV834264

LOCUS AV834264 91 bp mRNA linear EST 22-JUN-2001
DEFINITION AV834264 K. Sato unpublished cdNA library: Hordeum vulgare subsp.
vulgare shoots germination Hordeum vulgare subsp. vulgare cdNA
clone rbags8j18, mRNA sequence.

ACCESSION AV834264
VERSION AV834264.1 GI:14526353
KEYWORDS EST.
SOURCE Hordeum vulgare subsp. vulgare.

ORGANISM

Hordeum vulgare subsp. vulgare
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae
; Triticeae; Hordeum.

REFERENCE

AUTHORS Sato,K.
TITLE Barley EST sequencing project in NIG and Okayama Univ
JOURNAL Unpublished (2001)
COMMENT Contact: Kazuhiro Sato

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URL:http://www.rib.okayama-u.ac.jp/barley/
Sato,K., Saisho,D., Takeda,K., Shini,T. and Kohara,Y. Direct
submission;

database:http://www.shigen.nig.ac.jp/barley/Barley.html.
Location/Qualifiers
1. .91

FEATURES
source

/organism="Hordeum vulgare subsp. vulgare"
/cultivar="Haruna Nijo"
/db_xref="taxon:112509"
/clone="rbags8j18"
/clone_lib="K. Sato unpublished cdNA library: Hordeum
vulgare subsp. vulgare shoots germination"
/tissue_type="shoots"
/dev_stage="germination"

BASE COUNT 13 a 25 c 22 g 29 t 2 others
ORIGIN

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Best Local Similarity 86.7%; Pred. No. 3.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 tccatggtgctcact 15
||| || |||||
Db 18 TCCGTGCTGCTCACT 32

Search completed: July 21, 2002, 03:21:21
Job time: 16896 sec